
DRUG DOSES

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Seventeenth Edition

2017

Do not use this edition after Dec 2020

Age	Wt	% of Area	Pulse	Mean	BP 95% range
			adult dose	95% range	
Term	3.5kg	0.23 m ²	12%	95-145	40-60
3mo	6.0kg	0.31 m ²	15%	110-175	45-75
6mo	7.5kg	0.38 m ²	20%	110-175	50-90
1yr	10 kg	0.47 m ²	25%	105-170	50-100
3yr	14 kg	0.61 m ²	33%	80-140	50-100
7yr	22 kg	0.86 m ²	50%	70-120	60-90
10yr	30 kg	1.10 m ²	60%	60-110	60-90
12yr	38 kg	1.30 m ²	75%	60-100	65-95
14yr	50 kg	1.50 m ²	80%	60-100	65-95
21yr	60 kg	1.65 m ²	100%	65-115	65-105
21yr	70 kg	1.80 m ²	100%	65-115	70-110

Age < 9 yr: wt (kg) approx = (2 x age) + 9

Age > 9 yr: wt (kg) approx = 3 x age

Surf area m² = sq rt (Ht cm x Wt kg / 3600)

Age	Wt kg	Endotracheal tube				Sucker FG
		Int dia mm	Ext dia mm*	At lip cm	At nose cm	
Birth	<0.7	2.0	2.9	6	6.5	6
Birth	<1	2.5 †	3.6	6.5	7	6
Birth	1.0	3.0 †	4.3	7	7.5	7
Birth	2.0	3.0 †	4.3	8	9	7
Birth	3.0	3.0 †	4.3	9	10.5	7
Birth	3.5	3.5 †	4.9	10	11	8
3mo	6.0	3.5	4.9	11	12	8
1 yr	10	4.0	5.6	13	14	8
2 yr	12	4.5	6.2	14	15	8
3 yr	14	4.5	6.2	14.5	16	8
4 yr	16	5.0	6.9	15	17	10
6 yr	20	5.5	7.5	16	19	10
8 yr	24	6.0	8.2	17	20	10
10 yr	30	6.5	8.9	18	21	12
12 yr	38	7.0	9.5	19	22	12
14 yr	50	7.5	10.2	20	23	12
Adult	60	8.0	10.8	21	24	12
Adult	70	9.0	12.1	21	25	12

* External diameter of Mallinckrodt tubes

† ETI: <1kg 2.5mm, 1-3.5kg 3.0mm, >3.5kg 3.5mm

ETT: >2yr size (mm) = 4 + age/4; length (cm):

≤2yr: 8 + wt/2 at lip, 9 + wt/2 at nose

>2yr: 13 + age/2 at lip, 15 + age/2 at nose

CONTENTS

Drug doses	1
Infusion rates table	61
Haemofiltration, plasmfiltration, ECMO	110
Cytochrome P450-CYP3A effects	111
Alveolar-arterial O ₂ diff, MAP, OI, VI	113
Muscle relaxants	113
Pacemaker codes	113
Intravenous catheters	113
Haematology	113
Fluid and electrolytes	114
Dialysis	114
Ventilation	114
Immunisation schedule	115
Antibiotic guidelines	115
Normal values: blood, sweat, urine, CSF.....	117
Drug infusion compatibility table	119
Resuscitation table	121
Pharmacokinetic formulae	123

ACKNOWLEDGEMENTS

In 1983, Alan Duncan suggested that it would be a good idea to publish the list of drug doses that I had compiled for my own use in intensive care at the Royal Children's Hospital in Melbourne. Alan wrote the resuscitation table and suggested the inclusion of normal values. The antibiotic guidelines were adapted from notes written by Mike South. Stephanie Brumby, Rob Henning, Mike Clifford, Trevor Duke, Johnny Millar, Jim Tibballs, Warwick Butt, and many others have also helped.

DRUGS ARE LISTED BY GENERIC NAME

1/100=1%=10mg/ml, 1/1000=1mg/ml, 1/10000=0.1mg/ml

Abacavir (ABC). 8mg/kg (adult 300mg) 12H oral.

Abacavir 600mg + dolutegravir 50mg + lamivudine 300mg.

Adult, NOT/kg: 1 tab daily oral.

Abacavir 600mg + lamivudine 300mg. >16yr: 1 tab daily.

Abacavir 300mg + lamivudine 150mg + zidovudine 300mg.

>40kg: 1 tab 12H oral.

Abarelix. Adult, NOT/kg: 1 vial (delivers 100mg) IM on days 1, 15 and 29, and then every 28 days.

Abatacept. NOT/kg: 500mg (40-60kg) 750mg (60-100 kg) 1g (>100kg) IV over 30min day 1, 2wk, 4wk, then every 4wk.

Abciximab. 0.25mg/kg IV stat 10min before angioplasty, then 0.2mcg/kg/min (max 10mcg/min) IV for 12hr.

Abiraterone. Adult, NOT/kg: 1g daily + prednisolone 5mg 12H oral. Monitor hepatic enzymes.

Acamprosate. Adult, NOT/kg. <60kg: 666mg mane, 333mg noon and nocte oral. >60kg: 666mg 8H.

Acarbose. 1-4mg/kg (adult 50-200mg) 8H oral.

Acebutolol. 4-8mg/kg (adult 200-400mg) 8-24H oral.

Acedclofenac. 2mg/kg (adult 100mg) 12H oral.

Acemetacin. 1.2mg/kg (adult 60mg) 8-12H oral.

Acenocoumarol. See nicoumalone.

Acetaminophen. See paracetamol.

Acetazolamide. 5-10mg/kg (adult 100-250mg) 6-8H (daily for epilepsy) oral. TB hydrocephalus: 25-50mg/kg 6-8H plus frusemide 0.25mg/kg 6H.

Acetic acid. 1% 3 drops/ear 8H. Box jellyfish: apply vinegar.

Acetohydroxamic acid. 5mg/kg (adult 250mg) 6-8H oral.

Acetyl sulfisoxazole. 1.16g = 1.0g sulphafurazole (qv).

Acetylcholine chloride. Adult, NOT/kg: 1% instil 0.5-2ml into anterior chamber of the eye.

Acetylcysteine. Liver failure, paracetamol poisoning (regardless of delay): 150mg/kg in 5%D IV over 1hr; then 10mg/kg /hr for 20hr (delay <10hr), 32hr (delay 10-16hr), 72hr (delay >16hr) and longer if still encephalopathic; oral 140mg/kg stat, then 70mg/kg 4H for 72hr. Monitor serum K⁺. Give if paracetamol >1000umol/L (150mg/L) at 4hr, >500umol/L 8hr, >250umol/L 12hr. Lung disease: 20% soln 0.1ml/kg (adult 5ml) 6-12H nebulised or intratracheal. Meconium ileus equivalent: 5ml (NOT/kg) of 20% soln 8H oral; 60-100ml of 50mg/ml for 45 min PR. CF: 4-8mg/kg 8H oral.

Acetylcysteine 5% + hypromellose 0.35%. 1 drop/eye 6-8H.

Acetylsalicylic acid. See aspirin.

Aciclovir. EBV, herpes enceph or sepsis, immunodef, varicella IV over 1hr: 20mg/kg 12H (<30wk), 8H (30-35wk); ≥36wk-12yr 500mg/m² 8H; >12yr 10mg/kg 8H. Cutaneous

herpes IV over 1hr: 250mg/m² (birth-12yr) 5mg/kg (>12yr) 8H. Genital herpes (>12yr NOT/kg): 200mg oral x5/day for 10 days, then 200mg x2-3/day for 6mo if reqd. Zoster (>12yr NOT/kg): 400 mg (<2yr) or 800mg (>=2yr) oral x5/day for 7 days. Cold sores: 5% cream x5/day. Eye: 3% oint x5/day.

Acipimox. 5mg/kg (adult 250mg) 8-12H oral.

Acitretin. 0.5-1.0mg/kg (adult 25-50mg) daily oral; occasionally up to 1mg/kg (adult 75mg) daily oral.

Acitretin. 0.5-1mg/kg (adult 25-50mg) daily oral.

Acridinium. NOT/kg: 322 or 400mcg inhalation 12H.

Acriflavine hydrochloride. 0.1% soltn: apply 12-24H.

Acrivastine. 0.15mg/kg (adult 8mg) 8H oral.

Actinomycin D. See dactinomycin.

Activated charcoal. See charcoal, activated.

Acyclovir. See aciclovir.

Adalimumab. NOT/kg: 40mg (15-30kg) 80mg (>30kg) SC stat, then 20mg (15-30kg) 40mg (>30kg) every 2wk.

Adapalene. 0.1% cream, gel, lotion; 0.3% gel: apply daily.

Adapalene 0.1% + benzoyl peroxide 2.5% gel. Apply daily.

Adefovir. Adult, NOT/kg: 10mg daily oral.

Adenosine. Arrhythmia: 0.1mg/kg (adult 3mg) stat by rapid IV push, incr by 0.1mg/kg (adult 3mg) every 2min to max 0.5 mg/kg (adult 18mg). Pul hypertension: 50mcg/kg/min (3 mg/ml at 1ml/kg/hr) into central vein.

Ado-trastuzumab. 3.6mg/kg IV every 3wk.

Adrenaline. Asthma, bronchiolitis, croup inhaltn (<2yr 10L/min gas flow): 1% 0.02ml/kg dilt'd to 6ml, or 1/1000 0.2 ml/kg (max 6ml) dilt'd to 6ml; ventr circuit 1% 0.02ml/kg dilt'd to 6ml, or 1/1000 (max 6ml) dilt'd to 6ml. Cardiac arrest (repeat if reqd): 0.1ml/kg of 1/10,000 IV or intracardiac; via ETT 0.1 ml/kg of 1/1000. Anaphylaxis: IV 0.05-0.1ml/kg of 1/10,000, repeat if reqd; IM into thigh 0.01mg/kg (0.01ml/kg of 1/1000) up to 0.1mg/kg, x3 doses 20min apart if reqd. IV infsn 0.15 mg/kg in 50ml at 1-10ml/hr (0.05-0.5mcg/kg/min). T½ 2min.

Adrenaline 0.1% + fluorouracil 3.33%. Gel: inject into each wart weekly for up to 6wk.

Adrenocorticotrophic hormone (ACTH). See corticotrophin.

Afatinib. Adult, NOT/kg: 40mg daily oral, if tolerated incr to 50mg daily after 3wk.

Aflibercept. 2mg (0.05ml) intravitreal 4wkly x3, then 8wkly.

Agalsidase alpha. 0.2mg/kg IV over 40min every 2wk.

Agalsidase beta. 0.2-1mg/kg IV over 40 min every 2wk.

Agar + paraffin 65%. NOT/kg: 6mo-2yr 5ml, 3-5yr 5-10ml, >5yr 10ml 8-24H oral.

Agar + paraffin + phenolphthalein (Agarol). NOT/kg: 6mo-2yr 2.5ml, 3-5yr 2.5-5ml, >5yr 5ml 8-24H oral.

Agomelatine. Adult, NOT/kg: 25mg (max 50mg) daily oral.

Albendazole. Pinworm, threadworm, roundworm, hookworm, whipworm: 200mg (<10kg) 400mg (>10kg) oral once (may repeat after 2wk). Strongyloides, cutaneous larva migrans,

Taenia, H.nana, O.viverrini, C.sinesis: 200mg (<10kg) 400mg (>10kg) daily for 3 days, repeat in 3wk. 7.5mg/kg (adult 400mg) 12H for 8-30 days (neurocysticercosis); 12H for three 28 day courses 14 days apart (hydatid).

Albigitide. Adult, NOT/kg 30-50mg SC once a week.

Albumin. 20%: 2-5ml/kg IV. 4%: 10-20ml/kg. If no loss from plasma: dose (ml/kg) = $5 \times (\text{increase g/L}) / (\% \text{ albumin})$.

Albuterol. See salbutamol.

Alcaftadine. 0.25% soltn 1 drop in each eye daily.

Alclometasone. 0.05% cream or ointment: apply 8-12H.

Alcohol. See chlorhexidine, ethanol.

Alcohol. See ethanol.

Aldesleukin (synthetic IL-2). Malignancy: constant IV infsn less toxic than bolus injtn: 3,000,000-5,000,000u/m²/day for 5 days, if tolerated repeat x1-2 with 5 day interval.

Alefacept. Adult, NOT/kg: 7.5mg IV, 15mg IM wkly 12wk.

Alemtuzumab. Adult, NOT/kg: IV over 2hr. CLL: 3mg daily for 2-3 days, 10mg daily 2-3 days, then 30mg x3/wk for up to 12wk. MS: 12mg daily for 5 days, then daily for 3d anually.

Alendronate. 0.5mg/kg (adult 40mg) daily oral. Postmenopausal osteoporosis (adult, NOT/kg): 10mg daily, or 70mg slow-release wkly.

Alendronate 70mg + vitamin D₃ 2800u. 1 tab each wk oral.

Affcalcidol. 0.05mcg/kg (max 1mcg) daily oral or IV, adjusted according to response.

Alfentanil. 10mcg/kg IV or IM stat, then 5mcg/kg pm. Theatre (ventilated): 30-50mcg/kg IV over 5min, then 15mcg/kg pm or 0.5-1mcg/kg/min. ICU (ventilated): 50-100mcg/kg IV over 10min, then 0.5-4mcg/kg/min.

Alfuzosin. Adult, NOT/kg: 2.5mg 6-8H oral; slow-rel 10mg daily.

Alginic acid (Gaviscon single strength). <1yr: liquid 2ml with feed 4H. 1-12yr: liquid 5-10ml, or 1 tab after meals. >12yr: liquid 10-20ml, or 1-2 tab after meals.

Alglucerase. Usual initial dose is 60u/kg every 2wk IV over 2hr, adjusted according to response; reduce every 3-6mo.

Alglucosidase alfa. 20mg/kg by IV infusion every 2wk.

Alimemazine. See trimeprazine.

Alirocumab. Adult, NOT/kg: 75mg (max 150mg) every 2wk SC.

Aliskiren. Adult, NOT/kg: 150mg (max 300mg) daily oral.

Aliskiren + amlodipine. 150/5, 150/10, 300/5 or 300/10mg tab. Adult, NOT/kg: 150mg/5mg daily oral, incr over 2-4wk to max 300mg/10mg daily.

Aliskiren + hydrochlorothiazide. 150/12.5, 150/25, 300/12.5 or 300/25mg tab. Adult NOT/kg: 1 tab daily oral.

Aliskiren + valsarten. 150/160 or 300/320mg tab. Adult, NOT/kg: 1 tab daily oral.

Alitretinoin. 0.1% gel: apply 6-12H.

Allergen extract. See dust mite, grass allergens.

Allopurinol. 10-20mg/kg (max 600mg) daily oral. Prevent

tumourlysis: 100-150mg/m² 12H IV, oral.

Almotriptan. Adult, NOT/kg: 6.25-12.5mg oral, repeat in 2hr if reqd (max 2 doses in 24hr).

Alogliptin. Adult, NOT/kg: 12.5-25mg daily oral.

Alogliptin 12.5mg + metformin 500mg. 1 tab 12H oral.

Alogliptin 25mg + pioglitazone 30mg. 1 tab daily oral.

Alosetron. Adult, NOT/kg: 1mg daily oral, incr if reqd after 4wk to 1mg 12H (stop if no response after 4wk).

Alpha tocopheryl acetate. One alpha-tocopheryl (at) equivalent = 1mg d-at = 1.1mg d-at acetate = 1.5mg dl-at acetate = 1.5u vit E. Abetalipoproteinaemia: 100mg/kg (max 4g) daily oral. Cystic fibrosis: 45-200mg (NOT/kg) daily oral. Newborn (high dose, toxicity reported): 10-25mg/kg daily IM or IV, 10-100mg/kg daily oral.

Alpha₁ antitrypsin. 60mg/kg once wkly IV over 30min.

Alpha₁ proteinase inhibitor. See alpha₁ antitrypsin.

Alprazolam. 0.005-0.02mg/kg (adult 0.25-1mg) 8H oral. Slow rel: 0.5-1mg daily, incr to 3-6mg (max 10mg) daily oral.

Alprenolol. 1-4mg/kg (max 200mg) 6-12H oral.

Alprostadil (prostaglandin E1, PGE1). Maintain PDA: 60 mcg/kg in 50ml 0.9% saline 0.5-3ml/hr (10-60ng/kg/min); T½ 1min. Erectile dysfn (adult NOT/kg): 2.5mcg intracavernous inj, incr by 2.5mcg if reqd to max 60mcg (max 3 doses/wk).

Alteplase (tissue plasminogen activator). 0.1-0.6mg/kg/hr IV for 6-12hr (longer if no response); keep fibrinogen >100mg/dL (give cryoprecipitate 1bag/5kg), give heparin 10u/kg/hr IV, give fresh frozen plasma (FFP) 10ml/kg IV daily in infants. Local IA infsn: 0.05mg/kg/hr, give FFP 10ml/kg IV daily. Blocked cannula: 0.5mg/2ml (<10kg) 2mg/2ml (>10kg) per lumen left for 2-4hr, withdraw drug, flush with saline; repeat once in 24hr if reqd. Empyema: 4mg in 40ml saline intrapleural 1hr dwell, repeat daily for total 3 doses.

Altretamine. 150-300mg/m² daily oral.

Aluminium acetate. 13% soltn (Burrow's lotion): for wet compresses, or daily to molluscum contagiosum.

Aluminium chloride hexahydrate. 20% lotion: x1-2/wk.

Aluminium hydroxide. 25mg/kg (adult 0.5-1g) 4-6H oral. Gel (64mg/ml) 0.1ml/kg 6H oral.

Aluminium hydroxide 40mg/ml, Mg hydroxide 40mg/ml, simethicone 4mg/ml (Mylanta, Gelusil). 0.5-1ml/kg (adult 10-20ml) 6-8H oral. ICU: 0.5ml/kg 3H oral if gastric pH <5.

Aluminium sulphate. 20% soltn: apply promptly to sting.

Alverine. 1-2mg/kg (adult 60-120mg) 8-12H oral.

Alvimopan. Adult, NOT/kg: 12mg cap 1-5hr pre-op, then 12H starting the day after surgery for up to 7 days oral.

Amantadine. 2mg/kg (adult 100mg) 12-24H oral. Flu A prophylaxis (NOT/kg): 100mg daily (5-9yr), 100mg 12H (>9yr).

Ambenonium. Adult, NOT/kg: 5mg x3-4/day incr slowly to 5-25mg (max 75mg) 6-8H oral.

Ambrisentan. Adult, NOT/kg: 5mg (max 10mg) daily oral.

Ambrisentan + tadalafil. Adult (NOT/kg): 5/20mg daily oral
incr 4wkly to 10/40mg daily.

Amcinonide. 0.1% lotion, cream, ointment: apply 8-12H.

Amethocaine. Gel 4% in methylcellulose (RCH AnGel): 0.5g
to skin, apply occlusive dressing, wait 30-60min, remove gel.
0.5%, 1%: 1 drop/eye.

Amifampridine. Adult, NOT/kg: 15 mg daily oral, incr every 5
days if reqd to max 20mg 8H.

Amifostine. 910mg/m² IV over 15min daily 30min before
chemotherapy; reduce to 740mg/m² if severe side effects.

Amikacin. Single daily dose IV or IM. Neonate: 15mg/kg stat,
then 7.5mg/kg (<30wk) 10mg/kg (30-35wk) 15mg/kg (term
<1wk) daily. 1wk-10yr: 25mg/kg day 1, then 18mg/kg daily.
>10yr: 20mg/kg day 1, then 15mg/kg (max 1.5g) daily.
Trough level <5.0mg/L.

Amiloride. 0.2mg/kg (adult 5mg) 12-24H oral.

Aminacrine hydrochloride. 0.02% 1 drop/eye 2-4H.

Aminoacridine hydrochloride. See aminacrine.

Aminobenzoic acid. 60mg/kg (max 3g) 6H oral.

Aminocaproic acid. 3g/m² (adult 5g) over 1hr IV, then 1g/m²
per hr (max 1-1.25g/hr). Prophylax: 70mg/kg 6H IV, oral.

Aminogluthethimide. Adult, NOT/kg: 250mg daily oral, incr
over 4wk to 250mg 6H.

Aminohippuric acid (PAHA). 6-10mg/kg stat, then 0.2-0.5
mg/kg/min IV gives 2mg/100ml in plasma.

Aminolevulinic acid. 20% soltn: apply to lesions, expose to
400-450nm blue light for 1000sec (10 J/cm²) next day;
repeat after 8wk if reqd.

Aminophylline. 100mg = 80mg theophylline. Load: 10mg/kg
(max 500mg) IV over 1hr. Maintenance: 1st wk life 2.5mg/kg
IV over 1hr 12H; 2nd wk life 3mg/kg 12H; 3wk-12 mo ((0.12
x age in wk) + 3) mg/kg 8H; >12mo and <35kg, 25mg/kg at
0.044ml/kg/hr (1.1mg/kg/hr) or 6mg/kg IV over 1hr 6H;
>35kg and <17yr, or >17yr and smoker, 25mg/ml at 0.028
ml/kg/hr (0.7mg/kg/hr) or 4mg/kg IV over 1hr 6H; >17yr non-
smoker 25mg/ml at 0.02ml/kg/hr (0.5mg/kg/hr) or 3mg/kg IV
over 1hr 6H; elderly 25mg/ml at 0.014 ml/kg/hr (0.35
mg/kg/hr) or 2mg/kg IV over 1hr 6H. Level 60-80umol/L.
(neonate), 60-110 (asthma) (x0.18=mcg/ml).

5-Aminosalicylic acid. See mesalazine.

**Aminosalicylic acid (4-Aminosalicylic acid, ASA, 4-ASA,
para-ASA, PAS).** 50-100mg/kg (adult 4g) 8H oral.

Amiodarone. IV: 15mg/kg in 50ml 5%D at 5ml/hr (25mcg/kg
/min) for 4hr, then 1-3ml/hr (5-15mcg/kg/min, max 1.2g/day).
Oral: 4mg/kg (max 200mg) 8H 1 wk, 12H 1 wk, then 12-24H;
after starting tablets, taper IV infsn over 5 days. Pulseless
VF or VT: 5mg/kg IV over 3-5 min.

Amisulpride. 1-6mg/kg (adult 50-300mg) daily oral; acute
psychosis 5-15mg/kg (adult 300-800mg) 12H.

Amitriptyline. Usually 0.5-1mg/kg (adult 25-50mg) 8H oral.

Enuresis: 1-1.5mg/kg (max 25mg) nocte.
Amlexanox: 5% oral paste: apply to ulcers x4/day.
Amlodipine. 0.05-0.2mg/kg (adult 2.5-10mg) daily oral.
Amlodipine + olmesartan. 5/20mg, 5/40, 10/20, 10/40 tab.
 Adult, NOT/kg: 1 tab daily oral.
Amlodipine + perindopril. 3.5/2.5mg, 7/5, 14/10 tab. Adult,
 NOT/kg: 1 tab daily oral.
Amlodipine + telmisartan. 5/40mg, 5/80, 10/40 or 10/80 tab.
 Adult, NOT/kg: 1 tab daily oral.
Amlodipine + valsartan. 5/160mg, 5/320, 10/160, 10/320 tab.
 Adult, NOT/kg: 1 tab daily oral.
Amobarbital. See amylobarbitone.
Amodiaquine. Treatment: 10mg/kg daily for 3 days oral.
 Prophylaxis: 5mg/kg once a wk.
Amorolfine. Nail lacquer 5%: apply x1-2/wk.
Amoxapine. 0.5-2mg/kg (adult 25-100mg) 8H oral.
Amoxicillin. See amoxycillin.
Amoxycillin. 25mg/kg (adult 0.25-1g) 8H IV, IM, oral; or 25-
 40mg/kg 12H. Slow release: ≥ 12 yr 775mg tab daily oral.
 Severe infn: 50mg/kg (adult 2g) IV 12H (1st wk life), 6H (2-
 3wk), 4-6H or constant infsn (≥ 4 wk). H.pylori: omeprazole.
Amoxycillin + clavulanic acid. Dose as amoxicillin, oral. 4:1
 (non-Duo products) 15-25mg/kg (adult 500/125mg) 8H; 7:1
 (Duo) 20-30mg/kg (adult 875/125mg) 12H; or 16:1 (XR) 30-
 50mg/kg (adult 2000/125mg) 12H.
Amphetamine. See dexamphetamine.
Amphetamine, racemic. NOT/kg: 3-5yr 2.5mg morning, ≥ 6 yr
 1-2/day (extra dose if reqd); incr dose by 2.5-5mg wkly if reqd.
Amphotericin B (Fungizone). Usually 1.5mg/kg/day (up to 2
 mg/kg/day) by continuous infsn IV. Central line: ≤ 46 kg 1.5
 mg/kg in 50ml 5%D at 2ml/hr; > 46 kg 1.5mg/kg in 1.2ml/kg
 5%D (1.25mg/ml) at 0.05ml/kg/hr. Peripheral IV: usually 1.5
 mg/kg in 12ml/kg 5%D at 0.5ml/kg/hr (higher concentrations
 may cause thrombophlebitis). Oral (NOT/kg): 100mg 6H, 50
 mg 6H prophylaxis. Bladder washout: 25 mcg/ml. Cream,
 oint 3%: apply 6-12H.
Amphotericin, colloidal dispersion (Amphocil, Amphotec).
 Usually 3-4mg/kg (up to 6mg/kg for aspergillus) daily IV over
 2-3hr.
Amphotericin, lipid complex (Abelcet). 5mg/kg daily over
 2hr IV, typically for 2-4wk.
Amphotericin, liposomal (AmBisome). 3-6mg/kg (up to 15
 mg/kg if severe infn) daily over 1-2hr IV, typically for 2-4wk.
Ampicillin. 25mg/kg (adult 0.25-1g) 6H IV, IM or oral. Severe
 infn: 50mg/kg (max 2g) IV 12H (1st wk life), 6H (2-4 wk), 3-
 6H or constant infsn (4+ wk).
Ampicillin + flucloxacillin. NOT/kg. 125mg/125mg or 250/
 250 (child), 250/250 or 500/500 (adult) 6H oral, IM or IV.
Ampicillin 1g + sulbactam 0.5g. 25-50mg/kg (adult 1-2g) of
 ampicillin 6H IM or IV over 30min.

Amprenavir. ≥ 4 yr. Soltn (max 2.8g/day): 22.5 mg/kg 12H, or 17mg/kg 8H oral. Caps (max 2.4g/day): 20mg/kg 12H, or 15mg/kg 8H oral.

Amrinone. < 4 wk: 4mg/kg IV over 1hr, then 3-5mcg/kg/min.
 > 4 wk: 1-3mg/kg IV over 1hr, then 5-15mcg/kg/min.

Amsacrine. 450-600mg/m² IV over 2hr daily for 3-5 days.

Amylase. See pancreatic enzymes.

Amylmetacresol. 0.6mg lozenge as reqd (max 8/day).

Amylobarbitone. 0.3-1mg/kg (adult 15-50mg) 8-12H, or 2-4mg/kg (adult 200-400mg) at night, oral.

Anagrelide. Adult, NOT/kg: 0.5mg 12H, incr slowly if reqd to max 2.5mg 6H oral.

Anakinra. Adult, NOT/kg: 100mg daily SC.

Anastrozole. Adult, NOT/kg: 1mg daily oral.

Ancestim (human stem cell factor). 20mcg/kg/day SC.

Aneurine. See thiamine.

Angel cream (RCH). See amethocaine.

Anidulafungin. 2-4mg/kg (adult 100-200mg) IV day 1, then 1-2mg/kg (adult 50-100mg) daily.

Anisindione. 6mg/kg (adult 300mg) oral day 1, 4mg/kg (adult 200mg) day 2, 2mg/kg (adult 100mg) day 3, then 0.5-5 mg/kg/day (adult 25-250mg) according to prothrombin time.

Anistreplase. Adult, NOT/kg: 30u IV over 5min.

Anthraquinone. See sennoside.

Anthrax vaccine (BioThrax). Inanimate. 0.5ml IM stat, 4wk, 6mo, 12mo, 18mo (5doses), then yearly. Post-exposure 0.5 ml IM stat, 2wk, 4wk (3 doses) with antibiotic.

Antihaemophilic factor. See factor 8.

Anti-inhibitor coagulant complex. See factor 8 inhibitor bypassing fraction.

Antilymphocyte globulin. See immunoglobulin, antilymph'te.

Antithrombin, antithrombin alfa, antithrombin III, recombinant human antithrombin (rhAT). Adult: units = (100% - actual%) x Wt / 2.2 load, then 23% of this hrly; double dose in pregnancy. Child: **either** 1000u in 20ml water diluted to 50ml with saline: 2.5 ml/kg/hr (50u/kg/hr) for 3hr, then 0.3 ml/kg/hr (6u/kg/hr) **or** 1750u in 10ml water diluted to 50ml with saline: 1.4ml/kg/hr (49u/kg/hr) for 3hr, then 0.17ml/kg/hr (6u/kg/hr). Monitor antithrombin activity after 6hr, then 8-12H: if $< 80\%$ incr dose 30%; if $> 120\%$ reduce dose 30%.

Antithymocyte globulin. See immunoglobulin, antilymph'te.

Antivenom to Australian box jellyfish, snakes (black, brown, death adder, sea, taipan, tiger), spiders (funnel-web) and ticks. Dose depends on amount of venom injected, not size of patient. Higher doses needed for multiple bites, severe symptoms or delayed administration. Give adrenaline 0.005mg/kg (0.005ml/kg of 1 in 1000) SC. Initial dose usually 1 amp diluted 1/10 in Hartmann's soltn IV over 30min. Do NOT give extra doses for coagulopathy.

Antivenom to black widow spider (USA), red back spider

(Australia). NOT/kg: 1amp IM, may repeat in 2hr. Severe: 2 amp diluted 1/10 in Hartmann soltn IV over 30min. No clear benefit from redback spider antivenom (Aust Prescr 35:152).

Antivenom to coral snake (USA). NOT/kg: 3-6 vials IV over 1-2hr, repeat if signs progress. Premed with diphenhydramine 5mg/kg (adult 300mg) IV, have adrenaline available.

Antivenom to Crotalidae (pit vipers, rattlesnakes - USA). NOT/kg: 4-6 vials, with higher dose for more severe envenomation, diluted 1/10 in saline IV over 1hr, repeated 1hr later if reqd; then 2 vials 6H for 3 doses.

Antivenom, bark scorpion. NOT/kg: 3 vials IV over 10min; further 1-2 vials at 30-60min intervals if reqd.

Antivenom, stonefish. 1000u (2ml) per puncture IM. Severe: 1000u/puncture diluted 1/10 in Hartmann soltn IV over 30min.

Apixaban. Adult, NOT/kg: surgery 2.5mg 12H oral, atr fib 5mg 12H.

Apomorphine. Adult, NOT/kg: usually 2.4-3.6mg/dose (max 6mg) prn to max 50mg/day SC. Infsn: 0.02-0.08mg/kg/hr (max 200mg/day) SC.

Apraclonidine. 1 drop/eye 8H (0.5%), 12H (1%).

Apremilast. Adult, NOT/kg: 10mg 12H oral, incr over 6 days to 30mg 12H.

Aprepitant. Adult, NOT/kg: 125mg oral 1hr before chemo, then 80mg on days 2 and 3.

Aprostadi. See alprostadil.

Aprotinin (1kiu = 140ng = 0.00056epu, 1mg = 7143kiu). 1,200,000 kiu/m² IV over 1hr (plus 1,200,000 kiu/m² in prime), then 300,000 kiu/m²/hr; half for "low dose". Adult, NOT/kg: 2,000,000 kiu IV over 1hr (plus 2,000,000 kiu in prime), then 500,000 kiu/hr; half for "low dose". Prophylaxis: 4000 kiu/kg, then 2000 kiu/kg 6H IV.

Arachis oil. 130ml enema as required.

Arachis oil 57% + chlorbutol 5% + dichlorobenzene 16% (Cerumol). 5 drops to ear 15-30min before syringing.

Arformoterol. NOT/kg: 15mcg in 2ml 12H by nebulisation.

Argatroban. 2mcg/kg/min IV; adjust to maintain APTT x1.5-3.

Arginine hydrochloride. Dose (mg) = BE x Wt(kg) x 70; give half this IV over 1hr, then repeat if reqd.

Arginine vasopressin, argipressin. See vasopressin.

Aripiprazole. 0.1mg/kg (adult 5mg) incr if reqd by 0.1mg/kg (adult 5mg) each wk to max 0.6mg/kg (adult 30mg) daily. Extended release: 6-8mg/kg (adult 300-400mg) IM monthly.

Aripiprazole lauroxil. Adult, NOT/kg: 441mg (=10mg/day oral) or 662mg (=15mg/day) monthly, or 882mg every 4-6wk IM.

Armodafinil. Adult, NOT/kg: 150mg (max 250mg) daily oral.

Arsenic trioxide. 0.15mg/kg daily IV until remission (max 60 doses), wait 6wk, then 0.15mg/kg daily for 25 days.

Artemether, oily soltn. 3.2mg/kg IM stat, then 1.6mg/kg daily until oral therapy possible (see artesunate).

Artemether 20mg + lumefantrine 120mg. NOT/kg: 1 tab (5-

- 14kg), 2 tab (15-24kg), 3 tab (25-34kg), 4 tab (≥ 35 kg) with fatty food (e.g. milk) at 0hr, 8hr, 24hr, 36hr, 48hr and 60hr. Repeat dose if vomit within 1hr of ingestion.
- Artesunate.** Treatment of choice for severe malaria. 2.4mg/kg IV or IM at 0hr, 12hr, 24hr, then daily x7 days; after at least 3 doses and when oral therapy possible change to full course of artemether + lumefantrine.
- Articane 40mg/ml + adrenaline 1:100,000.** Adult, NOT/kg avge dose 1.7ml (max 7mg/kg = 0.175ml/kg) by injection.
- Ascorbic acid.** Burn (NOT/kg): 200-500mg daily IV, IM, SC, oral. Metabolic dis (NOT/kg): 250mg (<7yr) 500mg (>7yr) daily oral. Scurvy (NOT/kg): 100mg 8H oral for 10 days. Urine acidification: 10-30mg/kg 6H.
- Asenapine.** Adult, NOT/kg: 10-20mg daily sublingual.
- Asfotase.** 2mg/kg (infants 3mg/kg) three times a week SC.
- Asparaginase.** See colaspase.
- Aspirin.** 10-15mg/kg (adult 300-600mg) 4-6H oral. Antiplatelet, preeclampsia (enteric-coat poor absorbtn): 5mg/kg (adult 81-100mg) daily; ER adult (NOT/kg) 162.5mg daily. Kawasaki: 10mg/kg 6H (low dose) 25mg/kg 6H (high dose) for 2wk, then 3-5 mg/kg daily. Arthritis: 25mg/kg (max 2g) 6H for 3 days, then 15-20mg/kg 6H. Salicylate level (arthritis) mid-dose 0.7-2.0mmol/L ($\times 13.81 = \text{mg}/100\text{ml}$).
- Aspirin 25mg + dipyridamole 200mg.** Adult, NOT/kg 1 sustained rel cap 12H oral.
- Aspirin lysine 1.62g + metoclopramide 10mg.** Adult, NOT/kg: 1 sachet oral, may repeat in 2hr; max 3/day.
- Asunaprevir.** Adult, NOT/kg: 100mg 12H + daclatasvir 60mg daily $\pm$ ribavirin oral.
- Atazanavir (ATV).** >16yr: 400mg/daily with food. Trough $\geq 150\text{ng}/\text{ml}$.
- Atazanavir + cobicistat.** Adult, NOT/kg: 300/150mg daily.
- Atazanavir + ritonavir.** 15-24kg: 150/80mg daily with food oral; 25-31kg: 200/100mg daily; 32-38kg: 250/100mg daily; ≥ 39 kg: 300/100mg daily with food. ATV trough $\geq 150\text{ng}/\text{ml}$.
- Atazanavir 400mg + efavirenz 600mg + ritonavir 100mg.** >16yr: all daily oral, at different times (EFV not with food).
- Atenolol.** Oral: 0.5-1mg/kg (max 25-50mg) 12-24H. IV: 0.05 mg/kg (max 2.5mg) every 5min if reqd (max 4 doses), then 0.1-0.2mg/kg (max 5-10mg) over 10min 12-24H.
- Atenolol 50mg + nifedipine 20mg.** Adult, NOT/kg: 1 cap 12H oral. Slow-rel: 1 cap daily oral.
- Atomoxetine.** 0.5mg/kg (max 40mg) daily oral, incr after at least 3 days to max 1.2-1.4mg/kg (max 100mg) as single daily dose or divided 12H.
- Atorvastatin.** 0.2mg/kg (adult 10mg) daily, incr if reqd every 4wk to max 1.6mg/kg (adult 80mg) daily.
- Atorvastatin + ezetimibe.** 10/10mg, 20/10, 40/10, 80/10. Adult, NOT/kg: 1 tab daily oral.
- Atosiban.** Adult, NOT/kg: 6.75mg IV over 1min, then 300

mcg/min for 3hr, then 100mcg/min for max 45hr.

Atovaquone, micronised. Pneumocystis: 3-24mo 45mg/kg, >24mo 30mg/kg (max 1500mg) daily oral.

Atovaquone 62.5mg + proguanil 25mg (Malarone paediatric). Treat: 2 tab (5-8kg) 3 tab (9-10kg) 8H for 3 days. Prophylaxis: 5mg/kg (adult 250mg) daily oral.

Atovaquone 250mg + proguanil 100mg (Malarone). Malaria treat: 20mg/kg of atovaquone (max 1g) daily for 3 days oral; proph: 5mg/kg of atovaquone (adult 250mg) daily.

Atracurium. 0.3-0.6mg/kg stat, then 0.1-0.2mg/kg when reqd or 5-10mcg/kg/min IV.

Atropine. 0.02mg/kg (max 0.6mg) IV or IM, then 0.01mg/kg 4-6H. Organophosphate poisoning: 0.05-1mg/kg (adult 2mg) IV, then 0.02-0.05mg/kg (adult 2mg) every 15-60min until atropinised, then 0.02-0.08mg/kg/hr for several days. Auto-injector (adult, NOT/kg): 2mg + obidoxime 110mg IM.

Atropine 25mcg + diphenoxylate 2.5mg tab (Lomotil). Adult, NOT/kg: 1-2 tab 6-8H oral.

Attapulgit. Adult, NOT/kg: 0.6-1.2g 3-6H oral.

Auranofin. 0.1mg/kg (adult 6mg) daily oral, incr if reqd to max 0.05mg/kg (adult 3mg) 8H.

Aurothioglucose, aurothiomalate. 0.25mg/kg wkly IM, incr to 1mg/kg (max 50mg) wkly for 20wk, then every 1-4wk.

Avanafil. Adult, NOT/kg: 100mg (50-200mg) 30min before sexual activity, max once/day.

Avibactam. See ceftazidime.

Axitinib. Adult, NOT/kg: 5mg (2-10mg) 12H oral.

Azacitidine. 75mg/m² SC daily for 7 days, repeated every 4wk; incr if reqd after 2 cycles to 100mg/m² daily.

Azapropazone. 10mg/kg (max 600mg) 12H oral. Acute gout: 6H (day 1), 8H (day 2), then 12H.

Azatadine. NOT/kg: 0.5-1mg (>6y), 1-2mg (>12y) 12-24H po.

Azathioprine. 25-75mg/m² (approx 1-3mg/kg) daily oral, IV.

Azelaic acid. 20% cream, 15% gel: apply 12H.

Azelastine. 0.1% spray, >5yr: 0.15ml to each nostril 12H.

Azelastine + fluticasone. 1 spray (137/50mcg) / nostril 12H.

Azidothymidine (AZT). See zidovudine.

Azilsartan. 1-2mg/kg (adult 40-80mg) daily oral.

Azilsartan + chlorthalidone. 40/12.5, 40/25mg. Adult, NOT/kg: 40/12.5 tab daily, incr to 40/25 daily if reqd.

Azithromycin. Oral (only 40% bioavailable): 15mg/kg (adult 500mg) on day 1 then 7.5mg/kg (adult 250mg) days 2-5, or 15mg/kg (adult 500mg) daily for 3 days; trachoma 20 mg/kg (adult 1g) wkly x3; MAC prophylaxis (adult) 1.2g wkly; Gp A strep 20mg/kg daily x3. IV: 15mg/kg (adult 500mg) day 1, then 5mg/kg (adult 200mg) daily. 1% eye drops: 1 drop 12H for 2 days, then daily for 5 days.

Aztreonam. 30mg/kg (adult 1g) 8H IV. Severe infn: 50mg/kg (adult 2g) 12H (1st wk life), 8H (2-4 wk), 6H or infsn (4+ wk). Nebulised (adult, NOT/kg): 75mg 8H.

- Bacampicillin.** 15-25mg/kg (adult 400-800mg) 12H oral.
- Bacillus Calmette-Guerin (BCG) vaccine (CSL).** Live. Intra-dermal (1mg/ml): 0.075ml (<3mo) or 0.1ml (>3mo) once. Percutaneous (60mg/ml suspension): 1 drop on skin, inoculated with Heaf apparatus, once.
- Bacillus Calmette-Guerin (BCG) vaccine suspension, about 5×10^8 cfu/vial.** Adult: 1 vial (OncoTICE) or 3 vials (ImmuCyst) left in bladder for 2hr each wk for 6wks, then at 3, 6, 12, 18 and 24mo.
- Bacitracin 500u/g + polymyxin B 10,000u/g.** Eye ointment: apply x2-5/day.
- Bacitracin 400u/g + polymyxin B 5000u/g + neomycin 5mg/g (Neosporin).** Ointment or eye ointment: apply x2-5/day. Powder: apply 6-12H (skin infxn), every few days (burns). Eye drops: see gramicidin.
- Baclofen.** 0.2mg/kg (adult 5mg) 8H oral, incr every 3 days to 1mg/kg (adult 25mg, max 50mg) 8H. Intrathecal infsn: 2-20 mcg/kg (max 1000mcg) per 24hr.
- Balsalazide.** Adult, NOT/kg: 2.25g 8H oral (= 2.34g mesalazine daily).
- Bambuterol.** 0.2-0.4mg/kg (adult 10-20mg) nocte oral.
- Basiliximab.** 12mg/m² (max 20mg) IV 2hr preop and day 4.
- Bazedoxifene 20mg + conjugated oestrogens 0.45mg.** Adult, NOT/kg: 1 tab daily.
- BCG vaccine.** See Bacillus Calmette-Guerin vaccine.
- Becaplermin.** Length 0.01% gel in cm: ulcer length x width / 4 (15g tube), or L x W / 2 (2g tube) daily; wash off after 12hr.
- Beclomethasone dipropionate.** Rotacap or aerosol (NOT/kg): 100-200mcg (<8yr), 150-400mcg (>8yr) x2/day (rarely x4/day). Nasal (NOT/kg): aerosol (80mg/spray) or pump (42-50mcg/spray): 1spray 12H (<12yr), 2spray 12H (>12yr).
- Beclomethasone extrafine 100mcg + formoterol 6mcg.** ≥12yr (NOT/kg): 1-2 puffs 12H inhaled.
- Bedaquiline.** Adult, NOT/kg: 400mg daily oral for 2wk, then 200mg x3/wk for wks 3-24.
- Belatacept.** 10mg/kg IV over 30min day 1, day 5, 2wk, 4wk, 8wk and 12wk; then 5mg/kg every 4wk.
- Belimumab.** 10mg/kg IV over 1hr every 2wk x3, then 4wkly.
- Belinostat.** 1g/m² IV over 30min day1-5 of 21 day cycle.
- Bemiparin.** Surgery (adult, NOT/kg): 2500u (orthopaedics 3500u) SC 2hr pre-op or 6hr post-op, then daily for 7-10 days. DVT: 115u/kg daily 5-9 days (or until oral anticoag).
- Benazepril.** 0.2-0.4mg/kg (adult 10-20mg) 12-24H oral.
- Bendamustine.** CLL: 100mg/m² IV on days 1 and 2 of 28-day cycle for up to 6 cycles; 70mg/m² with rituximab. NHL: 120 mg/m² on days 1 and 2 of 21-day cycle for up to 8 cycles; 90mg/m² with rituximab.
- Bendrofluazide.** 0.1-0.2mg/kg (adult 5-10mg) daily oral.
- Bendroflumethiazide.** See bendrofluazide.
- Benflumetol (lumefantrine).** See artemether.

Benorylate. 30mg/kg (adult 1.5g) 8H oral.

Benperidol. 5-15mcg/kg (adult 0.25-1.5mg) 12-24H oral.

Benserazide. See levodopa + benserazide.

Benzathine penicillin. See penicillin, benzathine.

Benzatropine. See benztropine.

Benzbromarone. Adult, NOT/kg: 50-300mg daily oral, or 20-25mg with allopurinol.

Benzhexol. >3yr: 0.02mg/kg (adult 1mg) 8H, incr to 0.1-0.3 mg/kg (adult 1.5-5mg) 8H oral.

Benzocaine. 1%-20% topical: usually applied 4-6H.

Benzocaine + cetylpyridinium. Mouth wash (Cepacaine): apply 3H prn, do not swallow.

Benzocaine + phenazone 5.4% (Auralgin). 3 drops per ear x3/day for 2-3 days.

Benzoic acid 6% + salicylic acid 3%. Whitfield's ointment: apply 12H.

Benzonatate. Adult, NOT/kg: 1-2 100mg cap 8H oral; must be swallowed whole, toxic if capsule not intact.

Benzoyl peroxide. Liquid, gel 2.5%-10%: apply x1-3/day. See also adapalene + benzoyl peroxide.

Benzoyl peroxide + clindamycin gel. 1%/5%, 1.2%/2.5%, 1.2%/3.75%, 1.2%/5%. Apply pea-sized amount to face daily.

Benzphetamine. 25-50mg daily oral, incr if reqd to 8H.

Benzquinamide. IM: 0.5-1mg/kg (adult 50mg) stat and repeat in 1hr if needed, then 3-4H prn. IV over 1-5min: 0.2-0.4mg/kg (adult 25mg) once.

Benzthiazide 25mg + triamterene 50mg. Adult, NOT/kg: 1-2 tab on alternate days, oral.

Benztropine. >3yr: 0.02mg/kg (adult 1mg) stat IM or IV, may repeat in 15min. 0.02-0.06mg/kg (adult 1-3mg) 12-24H oral.

Benzydamine. 3% cream: apply 8H.

Benzyl benzoate. 25% lotion. Scabies: apply neck down after hot bath, wash off after 24hr; repeat in 5 days. Lice: apply to infected region, wash off after 24hr; repeat in 7 days.

Benzylpenicillin. See penicillin G.

Bepotastine. 1.5% ophthalmic soltn: 1 drop 12H.

Bepidil. 4-8mg/kg (adult 200-400mg) daily oral.

Beractant (bovine surfactant, Survanta). 25mg/ml soltn. 4ml/kg intratracheal 2-4 doses in 48hr, each dose in 4 parts: body inclined down with head to right, body down head left, body up head right, body up head left.

Besifloxacin. 0.6% eye ointment: apply 8H.

Beta carotene. Porphyria: 1-5mg/kg (adult 30-300mg) daily.

Betahistine. 0.15-0.3mg/kg (adult 8-16mg) 8H oral.

Betaine hydrochloride. Usually 60mg/kg (adult 3g) 12H oral, max 100mg/kg (adult 5g) 12H.

Betamethasone. 0.01-0.2mg/kg daily oral. Betamethasone has no mineralocorticoid action, 1mg = 25mg hydrocortisone in glucocorticoid action. Gel 0.05%; cream, lotion or ointment, 0.02%, 0.05%, 0.1%: apply sparingly 8-24H. Eye

0.1%: initially 1drop/eye 1-2H, then 6H; or 0.6cm oint 8-12H.

Betamethasone 0.1% + neomycin 0.5%. 1drop/eye 4-8H.

Betamethasone acetate 3mg/ml + betamethasone sodium phosphate 3.9mg/ml (Celestone Chronodose). Adult: 0.25-2ml (NOT/kg) intramuscular, intra-articular, or intralesional injection.

Betamethasone dipropionate 0.064% + calcipotriol 0.005% (Dovonex). Foam, ointment: apply daily to no more than 30% of body for up to 4wk (max 100g/wk in adult).

Betaxolol. 0.4-0.8mg/kg (adult 20-40mg) daily oral. Eye drops 0.25%-0.5%: 1 drop/eye 12H.

Bethanecol. Oral: 0.2-1mg/kg (adult 10-50mg) 6-8H. SC: 0.05-0.1mg/kg (adult 2.5-5mg) 6-8H.

Bevacizumab. 10mg/kg IV over 90min every 2wk or 15mg/kg every 3wk. Intravitreal (NOT/kg): 1.25mg every month.

Bexarotene. 300mg/m² (range 100-400mg/m²) daily oral.

Bezafibrate. 4mg/kg (adult 200mg) 8H oral with food.

Bicalutamide. Adult, NOT/kg: 50-150mg daily oral.

Bicalutamide + goserelin. Adult, NOT/kg: 50mcg daily oral, + goserelin 10.8mg implant 4wkly or 10.8mg SC every 3mo.

Bicarbonate. Slow IV: dose (mmol) = BE x Wt/4 (<5kg), BE x Wt/6 (child), BE x Wt/10 (adult). These doses correct half the base deficit. Alkalinise urine: 0.25mmol/kg 6-12H oral.

Bifonazole. 1% cream: apply daily for 2-4wk.

Bilastine. Adult, NOT/kg: 20mg daily oral.

Bimatoprost. 0.03% drops: 1 drop/eye each evening.

Bimatoprost 0.3mg/ml + timolol 5mg/ml. 1drop/eye daily.

Biotin (coenzyme R, vitamin H). NOT/kg: 5-20mg daily IV, IM, SC or oral.

Biperiden. 0.02-0.04mg/kg (adult 1-2mg) 8-12H oral. IM or slow IV: 0.05-0.1mg/kg (adult 2.5-5mg), max x4/day.

Bisacodyl. NOT/kg: <12mo 2.5mg PR, 1-5yr 5mg PR or 5-10mg oral, >5yr 10mg PR or 10-20mg oral. Enema: half daily (6mo-3yr), 1 enema daily (>3yr).

Bisacodyl 10mg + docusate sodium 100mg. <2yr ½ suppos, 1-11yr ½-1 suppos, >11yr 1 suppos daily.

Bismuth subgallate. See bismuth subcitrate.

Bismuth subsalicylate. 5mg/kg (adult 240mg) 12H oral 30min before meal. H.pylori, see omeprazole.

Bisoprolol. 0.2-0.4mg/kg (adult 10-20mg) daily oral.

Bitolterol. Resp soltn (0.2%): 1ml diluted to 4ml 3-6H (mild), 2ml dilted to 4ml 1-2H (moderate), undilted constant (severe, in ICU). Aerosol 370mcg/puff: 1-2 puff 4-6H.

Bivalirudin. IV: percutaneous coronary intervtn 0.75mg/kg stat, then 1.75mg/kg/hr for up to 72hr; HIT 0.15-0.2mg/kg/hr.

Bleomycin sulfate. 10-20u/m² IM, SC or IV over 15min x1-2/wk. Max total dose 250u/m².

Blinatumomab. NOT/kg. ≥45kg: 9mcg/day continuous IV infsn day1-7, 28mcg/day day8-28, 2wk rest; then 4 cycles of 28mcg/day day1-28 then 2wk rest.

Blood. 4ml/kg packed cells raises Hb 1g%. 1 bag = 300ml.

Boceprevir. 15mg/kg (adult 800mg) 8H oral.

Bortezomib. 1.3mg/m² on days 1, 4, 8, 11; then 10 day rest (21 day cycle, average 6 cycles). Stop if toxicity, then use 1 mg/m²/dose; stop if toxicity recurs, then use 0.7mg/m²/dose.

Bosentan. 1mg/kg (adult 62.5mg) 12H oral for 1-4wk, then 2mg/kg (adult 125mg) 12H. IV: half oral dose.

Bosutinib. Adult, NOT/kg: 500mg (300-600mg) daily oral.

Botulinum toxin type A. NOT/kg: 50u IM per site, every 12wk if reqd. Blepharospasm: 1.25-2.5u into 3 sites/eye (max 5u/site) IM, max total 200u/30days. Oesoph achalasia: 100u per session divided between 4-6 sites. Hyperhidrosis: 50u/2ml intradermal per axilla (given in 10-15 sites).

Botulinum toxin type B. NOT/kg: usual total dose 2,500-10,000u, repeated every 12wk if reqd.

Bowel washout. See colonic lavage soltn.

Brentuximab. 1.8mg/kg IV over 30min every 3wk.

Bretylium tosylate. 5mg/kg IV in 1hr, then 5-30 mcg/kg/min.

Brexiprazole. 0.5-1mg daily oral, incr if reqd to 2mg on day 5, and 4mg day 8.

Brimonidine. Gel 3.3mg/g: pea-sized amount to face daily.

Brimonidine. 0.2% 1 drop/eye 12H. 0.33% gel applied daily.

Brimonidine 0.2% + brinzolamide 1%. 1 drop/eye 8H.

Brimonidine 0.2% + timolol 0.5%. 1 drop/eye 12H.

Brinzolamide. 1%: 1 drop/eye 8-12H. See also brimonidine.

Brivaracetam. 0.5-2mg/kg (adult 25-100mg) 12H oral.

Bromazepam. 0.02-0.1mg/kg (adult 1-3mg) 8H oral.

Bromhexine 0.3mg/kg (adult 16mg) 8H oral for 7 days, then 0.15mg/kg (adult 8mg) 8H.

Bromocriptine. 0.025mg/kg (adult 1.25mg) 8-12H, incr wkly to 0.05-0.2mg/kg (adult 2.5-10mg) 6-12H oral. Diabetes (adult, NOT/kg): 0.8mg tab daily oral, incr wkly to max 1.6-4.8mg daily. Inhibit lactation, NOT/kg: 2.5mg 12H for 2wk.

Brompheniramine. 0.1-0.2mg/kg (adult 5-10mg) 6-8H oral, SC, IM or slow IV.

Buclizine. 0.25-1mg/kg (adult 12.5-50mg) 8-24H oral.

Budesonide. Metered dose inhaler (NOT/kg): <12yr 50-200 mcg 6-12H, reducing to 100-200mcg 12H; >12yr 100-600 mcg 6-12H, reducing to 100-400mcg 12H. Nebuliser (NOT/kg): <12yr 0.5-1mg 12H, reducing to 0.25-0.5mg 12H; >12yr 1-2mg 12H, reducing to 0.5-1mg 12H. Croup: 2mg (NOT/kg) 12H nebulised. Nasal spray, aerosol (NOT/kg): 64-128 mcg/nostiril 12-24H. Crohns dis, Adult, NOT/kg: 9mg slow-release tab daily for 8wk, then reduce over 4wk; rectal foam 2mg 12H for 2wk, then daily 4wk.

Budesonide + eformoterol. Inhalations: Chronic ≤12yr 100/6mcg 1-2 12H, or 200/6 1 daily; >12yr 100/6 1-2 12H or 200/6 1-2 12H or 400/12 1 12H. Acute >12yr: 100/6 or 200/6 (not 400/12) up to 6 inhaltn if reqd, max 12/day.

Bumetanide. 25mcg/kg (adult 1mg) daily oral, may incr to

- max 50mcg/kg (adult 3mg) 8-12H.
- Bupivacaine.** Max dose: 2-3mg/kg (0.4-0.6ml/kg of 0.5%). Intrathecal: 1mg/kg (0.2ml/kg of 0.5%). Epidural: 2mg/kg (0.4ml/kg of 0.5%) stat intraop, then 0.25mg/kg/hr (0.2 ml/kg/hr of 0.125%) postop. Intrapleural: 0.5% 0.5ml/kg (max 20ml) 8-12H, or 0.5ml/kg (max 10ml) stat then 0.1-0.25 ml/kg/hr (max 10ml/hr). Epidural in ICU: 25ml 0.5% + 1mg (20ml) fentanyl + saline to 100ml at 2-8ml/hr in adult.
- Bupivacaine + fentanyl.** 1mg+2mcg/ml. Adult, NOT/kg. Epidural: 10-20ml, then 5-10ml/hr or 3-20ml as reqd.
- Buprenorphine.** Adult, NOT/kg: 200-800mcg 6-8H sublingual, IM or slow IV; transdermal patch 5, 10 or 20mcg/hr wkly; buccal film 75mcg 12-14H, incr if reqd to max 900mcg 12H. Implant 74.2mg, adult NOT/kg: x4 subdermal replace 6mnthly.
- Buprenorphine + naloxone.** NOT/kg: oral 2/0.5mg (1.4/0.36 mg SL) 8/2mg (5.7/1.4mg SL) daily adjusted to response.
- Bupropion.** 2-3mg/kg (adult 75-150mg) 8-12H oral. NOT/kg: sustained 100-200mg 12H; extended: 150-300mg daily.
- Bupropion 90mg + naltrexone 8mg.** Adult, NOT/kg 1 tab in am daily oral wk1, 1 tab 12H wk2, 2 tab in am + 1 tab pm wk3, 2 tab 12H from wk4 on.
- Burrow's solution.** See aluminium acetate soltn.
- Buserelin.** Adult, NOT/kg. Intranasal: 100mcg 4H, or 150 mcg each nostril 8H. Prostate carcinoma: 0.5mg 8H SC for 7 days, then 100mcg dose of spray to each nostril x6/day.
- Buspiron.** 0.1mg/kg (adult 5mg) 8-12H oral, incr to max 0.3mg/kg (adult 15mg) 8-12H.
- Busulfan.** Induction: 0.06mg/kg (max 4mg) daily oral if leucocytes $>20,000/\text{mm}^3$ and platelets $>100,000/\text{mm}^3$. Maintenance: 0.01-0.03mg/kg (max 2mg) daily.
- Butabarbital.** See secbutobarbitone.
- Butalbital.** 1-2mg/kg (adult 50-100mg) 8-24H oral.
- Butenafine.** 1% cream: apply 12-24H for 1-4wk.
- Butobarbitone.** 2-4mg/kg (adult 100-200mg) nocte oral.
- Butoconazole.** 2% vaginal cream: 5g (NOT/kg) nocte.
- Butorphanol.** IM: 0.02-0.1mg/kg (adult 1-4mg) 3-4H. IV: 0.01-0.05mg/kg (adult 0.5-2mg) 3-4H.
- C1 esterase inhibitor.** 1u = activity 1ml plasma. Prophylaxis (Cinryze): 10-50u/kg (adult 1000u) IV over 1hr every 3-4 days. Treatment: 20u/kg IV (Berinert), 50u/kg (max 4200u) (Ruconest)..
- Cabazitaxel.** 25mg/m² IV over 1hr every 3wk.
- Cabergoline.** 10mcg/kg/wk (adult 0.5mg) in 1-2 doses, incr if reqd monthly by 10mcg/kg/wk to usually 20mcg/kg/wk (adult 1mg) in 1-4 doses, max 90mcg/kg/wk (adult 4.5mg). Inhibit lactation: 1mg oral stat.
- Cabozantinib.** Adult, NOT/kg: 60mg daily oral.
- Caffeine citrate.** 2mg citrate = 1mg base. Neonate 20mg/kg citrate stat, then 5-10mg/kg daily oral, IV. Adult 50-250mg citrate 4-8H oral, IV. Level 5-30mg/L midway between doses.

Caffeine 100mg + ergotamine tartrate 1mg tabs. Adult, NOT/kg: 2 stat, then 1 ½hrly if reqd (max 6/attack, 10/wk).

Cake, diablo. Fan oven 180°C. Melt 180g dark cooking chocolate + 170g unsalted butter in double boiler. Off heat, mix in 4 well-whisked egg yolks, 170g sugar, 40g almond meal; sift in 80g self-raising flour, mix. Fold in ⅓ of egg whites (beaten stiff with pinch of salt); fold back into rest of beaten whites. Put in buttered + floured 20cm tin, tap out air, bake 30min.

Calcifediol (25-OH D3). Deficiency: 1-2mcg/kg daily oral.

Calciferol (Vitamin D2). See ergocalciferol.

Calcipotriene. See calcipotriol.

Calcipotriol. 50mcg/g (0.005%) ointment: apply 12-24H. See also betamethasone + calcipotriol ointment.

Calcitonin. Hypercalcaemia: 4u/kg 12-24H IM or SC, may inc up to 8u/kg 6-12H. Paget's: 1.5-3u/kg (max 160u) x3/wk IM or SC. Nasal spray: 200u daily.

Calcitriol (1,25-OH vitamin D3). Oral, IV. Renal failure, vit D resistant rickets: 0.02mcg/kg (max 0.25mcg/kg) daily; adjust every 2-4wk by Ca, phos, PTH alk phos. Post-dialysis (NOT /kg): usually 0.25-2mcg x3/wk (monitor Ca, phos, PTH).

Calcium (as carbonate, lactate or phosphate). NOT/kg. Neonate: 50mg x4-6/day; 1mo-3yr: 100mg x2-5/day oral; 4-12yr: 300mg x2-3/day; >12yr: 1000mg x1-2/day.

Calcium acetate. 667mg (169mg Ca). x3 cap or tab 8H oral titrated to serum phosphate 1.1-1.8mmol/L.

Calcium carbimide. 1-2mg/kg (adult 50-100mg) 12H oral.

Calcium carbonate. Adult NOT/kg: 1250-1500mg (500-600 mg calcium) 8H oral with meals for hyperphosphataemia.

Calcium chloride. 10% soltn (0.7mmol/ml Ca): 0.2ml/kg (max 10ml) slow IV stat. Requirement <16yr 2ml/kg/day IV. Inotrope: 0.03-0.12ml/kg/hr (0.5-2mmol/kg/day) via CVC.

Calcium edetate (EDTA). See sodium calciumedetate.

Calcium folinate. NOT/kg: 5-15mg oral, or 1mg IM or IV daily. Rescue starting up to 24hr after methotrexate: 10-15 mg/m² 6H for 36-48hr IV. Methotrexate toxicity: 100-1000mg/m² 6H IV. Before a fluorouracil dose of 370 mg/m²: 200mg/m² IV daily x5, repeat every 3-4wk.

Calcium gluconate. 10% soltn (0.22mmol/ml Ca): 0.5ml/kg (max 20ml) slow IV stat. Requirement <16yr 5ml/kg/day IV. Inotrope: 0.5-2mmol/kg/day (0.1-0.4ml/kg/hr) via CVC.

Calcium heparin. See heparin.

Calcium leucovorin. See calcium folinate.

Calcium levofolinate. Half the dose of calcium folinate.

Calcium polystyrene sulfonate (Calcium Resonium). 0.3-0.6g/kg (adult 15-30g) 6H NG (+ lactulose), PR.

Calfactant. 35mg/ml phospholipids, 0.65mg/ml proteins: 1.5 ml/kg intratracheal gradually over 20-30 breaths during inspiration with infant lying on one side, then another 1.5 ml/kg with infant lying on other side.

Canagliflozin. Adult, NOT/kg: 100-300mg daily oral.

Canagliflozin + metformin. 50/500mg, 50/1000, 150/500, 150/1000. 1 tab 12H oral.

Canakinumab. ≥ 7.5 kg: 4mg/kg (max 300mg) SC every 4wk.

Candesartan. 0.1-0.3mg/kg (adult 4-16mg) daily oral.

Cangrelor. 30mcg/kg bolus then 4mcg/kg/min IV for duration of procedure (minimum 2hr).

Cannabidiol 25mg + delta-9-tetrahydrocannabinol 27mg per 100 μ L spray. Titrate over 2wk to max 12 sprays/day. to different parts of oral mucosa; review response after 4wk.

Cannabis. See cannabidiol, dronabinol, nabilone, nabiximols.

Canrenoate. 3-8mg/kg (adult 150-400mg) daily IV.

Capecitabine. 1250mg/m² 12H oral for 2wk then 1wk off, in 3wk cycles.

Capreomycin. 20mg/kg (adult 1g) IM daily, decr after 2-4mo to 2-3 times per wk.

Capsaicin. Cream 0.025%, 0.075% apply 6-8H. Postherpetic neuralgia: 8% patch applied for 60min every 3mo.

Captopril. Beware hypotension. 0.1mg/kg (adult 2.5-5mg) 8H oral, incr if reqd to max 2mg/kg (adult 50mg) 8H. Less hypotension if mixed with NG feeds given continuously (or 1-2H).

Carbachol. 0.01%: max 0.5ml in anterior chamber of eye.

Carbamazepine. 2mg/kg (adult 100mg) 8H oral, may incr over 2-4wk to 5-10mg/kg (adult 250-500mg) 8H. Bipolar disorder (adult, NOT/kg): 200mg as slow-rel cap 12H oral, incr if reqd to max 800mg 12H. Level 20-40 μ mol/L (x0.24=mg/L).

Carbaryl. 0.5% lotion: rub into hair, leave 12hr, shampoo.

Carbenicillin. 382mg tab, Adult, NOT/kg: 1-2 tab 4H oral.

Carbenoxolone. Adult, NOT/kg: 20-50mg 6H oral. Mouth gel 2%, or 2g granules in 40ml water, apply 6H.

Carbetocin. Adult, NOT/kg: 100mcg IV over 1min, or IM.

Carbidopa. See levodopa + carbidopa.

Carbimazole. 0.4mg/kg (adult 20mg) 8-12H oral for 2wk, then 0.1mg/kg (adult 5-10mg) 8-24H.

Carbinoxamine. NOT/kg: 2mg (1-3yr), 2-4mg (3-6yr), 4-8mg (>6yr) 6-8H oral.

Carbocysteine. 10-15mg/kg (adult 500-750mg) 8H oral.

Carbomer. 0.2% gel: 1 drop per eye x3-4/day.

Carboplatin. 300-400mg/m² IV over 60min every 4wk.

Carboprost (15-Me-PGF₂-alpha). Termination (NOT/kg): 250-500mcg 1-4H (max total 12mg) IM. Postpartum hge (NOT/kg): 250mcg every 15-120min IM (max total 12mg).

Carfilzomib. 20mg/m² IV over 10min on days 1,2,8,9,15,16 then 12 day rest; incr to 27mg/m² (max 60mg) if tolerated.

Carglumic acid. 50mg/kg 12H oral, incr to 6H if reqd; titrate dose to plasma ammonia concentration.

Cariprazine. Adult, NOT/kg: 1.5mg incr to max 6mg daily oral.

Carisoprodol. 7mg/kg (adult 350mg) 6H oral.

Carmustine (BCNU). 200mg/m² IV over 2hr every 6wk (reduce if leucocytes <3000/mm³ or platelets <75,000). Wafers: implant 8 x 7.7mg wafers (total 61.6mg) at surgery.

Carnitine, L form. IV: 5-15mg/kg (max 1g) 6H. Oral: 25mg/kg 6-12H (max 400mg/kg/day).

Carob bean gum (Carobel Instant). NOT/kg: 1 scoop (1.8g) in 100ml water, give 10-20ml by spoon; or add half a scoop to every 100-200ml of milk.

Carteolol. 0.05-0.2mg/kg (adult 2.5-10mg) daily oral. 1%, 2%: 1drop/eye 12H.

Carvedilol. 0.1mg/kg (adult 3.125mg) 12H oral; if tolerated incr by 0.1mg/kg (adult 3.125mg) every 1-2wk to max 0.5-0.8mg/kg (adult 25mg) 12H.

Casanthranol + docusate sodium. Cap 30/100mg (NOT/kg): adult 1-2cap 12-24H oral. Syrup 2/4mg per ml (NOT/kg): child 5-15ml bedtime, adult 15-30ml 12-24H.

Caspofungin. 70mg/m² (max 70mg) day 1, then <3mo 25 mg/m², ≥3mo 50mg/m² (max 50mg) daily IV over 1hr. Severe infn ≥3mo: 70mg/m² (max 70mg) daily IV over 1 hr.

Catumaxomab. Adult, NOT/kg. Intraperitoneal infsn over 6hr: 10mcg day 1, 20mcg day 3, 50mcg day 7, 150mcg day10.

Cefaclor. 10-15mg/kg (adult 250-500mg) 8H oral; 12H used in some mild infectns. Slow release tab 375mg (adult, NOT/kg): 1-2 tab 12H oral.

Cefadroxil. 15-25mg/kg (adult 0.5-1g) 12H oral.

Cefalexin. See cephalixin.

Cefalotin. 25mg/kg (max 1g) 6H IV, IM. Serious infn: 25 mg/kg (max 1g) 3-4H IV.

Cefamandole. See cephamandole.

Cefazolin. See cephalazolin.

Cefdinir. 14mg/kg (adult 600mg) daily (or 2 div doses) oral .

Cefditoren. 4-8mg/kg (adult 200-400mg) 12H oral.

Cefepime. 25mg/kg (adult 1g) 12H IV, IM. Severe infn: 50 mg/kg (adult 2g) IV 8H or constant infsn.

Cefixime. 5mg/kg (adult 200mg) 12-24H oral.

Cefodizime. 25mg/kg (max 1g) 12H IV or IM.

Cefonicid. 15-50mg/kg (adult 0.5-2g) IV or IM daily.

Cefoperazone. 25-60mg/kg (max 1-3g) 6-12H IV in 1hr or IM.

Cefotaxime. 25mg/kg (adult 1g) 12H (<4wk), 8H (4+wk) IV.

Severe infn: 50mg/kg (adult 2-3g) IV 12H (preterm), 8H (1st wk life), 6H (2-4 wk), 4-6H or constant infsn (4+ wk).

Cefotetan. 25mg/kg (adult 1g) 12H IM, IV. Severe infn: 50mg/kg (max 2-3g) 12H or constant infsn.

Cefoxitin. 20-40mg/kg (max 2g) 12H (1st wk life), 8H (1-4wk), 6-8H (>4wk) IV. Severe infn: 50mg/kg (max 3g) 6H IV.

Surgery: 40mg/kg (max 2g) at induction anaesthesia.

Cefpirome. 25-50mg/kg (adult 1-2g) 12H IV.

Cefpodoxime. 5mg/kg (adult 100-200mg) 12H oral.

Cefprozil. 15mg/kg (adult 500mg) 12-24H oral.

Cefradine. See cephradine.

Ceftaroline. 15mg/kg (adult 600mg) 12H IV over 1hr.

Ceftazidime. 25mg/kg (adult 0.5-1g) 12H (1st wk life), 8H IV, IM. Severe infn, cystic fib: 50mg/kg (max 2g) 6H (4+ wk).

Ceftazidime 2g + avibactam 0.5g. 50mg/kg ceftazidime 8H IV over 2hr. Add metronidazole for abdominal infn.

Ceftibuten. 10mg/kg (adult 400mg) daily oral.

Ceftizoxime. 25-60mg/kg (adult 1-3g) 6-8H IV.

Ceftolozane 1g + tazobactam 0.5g. IV over 1hr: <3mo 12/6 mg/kg 6-8H, 3mo-11yr 18/9 mg/kg 6-8H, ≥12yr 1g/0.5g 8H.

Ceftriaxone. ≥4wk: 50-75mg/kg (adult 1-2g) daily IV, IM (in 1% lignoc). Severe infn: 50mg/kg (max 2g) 12H. Epiglottitis: 100mg/kg (max 2g) stat, then 50mg/kg (max 2g) after 24hr. Meningococ proph (NOT/kg): child 125mg, >12yr 250mg IM in 1% lig once. H.inf proph: 50mg/kg (max 1g) IM in 1% lig once. Gonoc conj: 50mg/kg (max 1g) IM in 1% lig daily x2.

Cefuroxime. Oral: 10-15mg/kg (adult 250-500mg) 12H. IV: 25mg/kg (adult 1g) 8H. Severe infn: 50mg/kg (max 2g) IV 12H (1st wk life), 8H (2nd wk), 6H or constant infsn (>2wk).

Celecoxib. Usually 2mg/kg (adult 100mg) 12H, or 4mg/kg (adult 200mg) daily oral. Familial adenomatous polyposis (adult, NOT/kg): 400mg 12H oral.

Celiprolol. 5-10mg/kg (adult 200-400mg) daily oral.

Cephalexin. Skin or UTI: 12.5mg/kg (max 500mg) 6H, or 25mg/kg (max 1g) 12H oral. Systemic infn: 25mg/kg (max 1g) 6H. Prophylaxis: 12.5 mg/kg (max 250mg) at night.

Cephalothin. 15-25mg/kg (adult 0.5-1g) 6H IV or IM. Severe infn: 50mg/kg (max 2g) IV 4H or constant infsn. Irrigation fluid: 2g/L (2mg/ml).

Cephmandole. 15-25mg/kg (adult 0.5-1g) 6-8H IV over 10min or IM. Severe infn: 40mg/kg (adult 2g) IV over 20min 4-6H or constant infsn.

Cephazolin. 10-15mg/kg (max 1g) 8H IV or IM. Severe infn: 50mg/kg (max 2g) IV 6H or constant infsn. Surgical proph: 50mg/kg (max 2g) IV at induction.

Cephradine. Oral: 10-25mg/kg (adult 0.25-1g) 6H. IM or IV: 25-50mg/kg (adult 1-2g) 6H.

Ceritinib. Adult, NOT/kg: 750mg oral daily.

Certolizumab. Adult, NOT/kg: 400mg SC every 2wk for 3 doses, then every 4wk if response.

Certoparin. Prophylaxis: 60u/kg (adult 3000u) 1-2hr preop, then daily SC.

Cerumol. See arachis oil + chlorbutol + dichlorobenzene otic.

Cetirizine. NOT/kg: 2.5mg (6mo-2yr), 2.5-5mg (2-5yr), 5-10 mg (>5yr) daily oral.

Cetrimide. See chlorhexidine.

Cetrorelix (GnRH antagonist). Adult, NOT/kg: 0.25mg SC on stimulation day 5, then daily until hCG given.

Cetuximab. 400mg/m² IV over 2hr, then 250mg/m² wkly.

Cetylpyridinium. See benzocaine + cetylpyridinium.

Cevimeline. 0.6mg/kg (adult 30mg) 8H oral.

Charcoal, activated. 1-2g/kg (adult 50-100g) NG; then 0.25g/kg hrly if reqd. Laxative: sorbitol 1g/kg (1.4ml/kg of 70%) once NG, may repeat x1.

Chenodeoxycholic acid. 5-10mg/kg 12H oral.

Chickenpox vaccine. See varicella vaccine.

Chlomethiazole. See clomethiazole.

Chloral betaine. 1.7mg = 1mg chloral hydrate.

Chloral hydrate. Hypnotic: 50mg/kg (max 2g) stat (ICU up to 100mg/kg, max 5g). Sedative: 10mg/kg 6-8H oral or PR.

Chlorambucil. Typically 0.1-0.2mg/kg daily oral.

Chloramphenicol. Severe infn: 40mg/kg (max 2g) stat IV, IM or oral; then 25mg/kg (max 1g) daily (1st wk life) 12H (2-4 wk) 8H (>4wk) x5 days, then 6H. Eye drop, oint: apply 2-6H. Ear: 4drop 6H. Serum level 20-30mg/L 2hr, <15mg/L trough.

Chlorbutol. See arachis oil + chlorbutol + dichlorobenzene.

Chlordiazepoxide. 0.1mg/kg (adult 5mg) 12H oral, may incr to max 0.5mg/kg (adult 30mg) 6-8H.

Chlorhexidine. 0.1%: catheterisation prep, impetigo. 0.2%: mouthwash. 1%: skin disinfection. 2-4%: hand wash.

Chlorhexidine 0.5% + alcohol 70%. Skin disinfection.

Chlorhexidine + cetrimide. 0.05%/0.5%, 0.1%/1%, 0.15%/0.15% soltn: wound cleaning.

Chlorhexidine 1.5% + cetrimide 15%. 1/30 in water: cleaning tissues, wounds or equipment. 140ml in 1L water: disinfecting skin, equipment (soak 2min, rinse in sterile water).

Chlorhexidine 1% + hexamidine 0.15%. Powder: wounds.

Chlormethiazole. See clomethiazole.

Chlormezanone. 5mg/kg (adult 200mg) 6-8H, or 10mg/kg (adult 400mg) at night oral.

Chlorophyllin copper complex. 2mg/kg 8-24H oral.

Chloroprocaine. Max 11mg/kg (max 800mg). With adrenaline (1/200,000) max 14mg/kg (max 1000mg).

Chloroquine, base. Oral: 10mg/kg (max 600mg) daily x3 days. IM: 4mg/kg (max 300mg) 12H for 3 days. Prophylaxis: 5mg/kg (adult 300mg) oral x1/wk. Lupus, rheu arth: 12mg/kg (max 600mg) daily, reduce to 4-8mg/kg (max 400mg) daily.

Chloroquine + pyrimethamine + sulphadoxine. Chloroquine base 10mg/kg (max 600mg) daily for 3 days oral, plus pyrimethamine 1.25mg/kg (max 75mg) and sulphadoxine 25 mg/kg (max 1.5g) on first day.

Chlorothiazide. 5-20mg/kg (adult 0.25-1g) 12-24H oral, IV.

Chlorphenamine. See chlorpheniramine.

Chlorphenasin. 1% ointment: apply 12H.

Chlorpheniramine. 0.1mg/kg (adult 4mg) 6-8H oral.

Chlorpheniramine 10mg + ephedrine 15mg. NOT/kg slow-release: 1 tab 12-24H.

Chlorpheniramine 4mg + hydrocodone 5mg. NOT/kg: 1 tab 6H oral.

Chlorpheniramine 1.25mg + phenylephrine 2.5mg in 5ml. Syrup (NOT/kg): 1.25-2.5ml (0-1yr), 2.5-5ml (2-5yr), 5-10ml (6-12yr), 10-15ml (>12yr) 6-8H oral.

Chlorpheniramine + pseudoephedrine. 2/30mg in 5ml. NOT/kg: 2.5ml (2-6yr) 5ml (6-12yr) 10ml (>12yr) 8H.

Chlorpromazine. Oral or PR: 0.5-2mg/kg (max 100mg) 6-8H; up to 20mg/kg 8H for psychosis. IM (painful) or slow IV (beware hypotension): 0.25-1mg/kg (usual max 50mg) 6-8H.

Chlorpropamide. Adult, NOT/kg: initially 125-250mg oral, max 500mg daily.

Chlorquinaldol. 5% paste: apply 12H.

Chlorthalidone. See chlorthalidone.

Chlortetracycline. 3% cream or ointment: apply 8-24H.

Chlortetracycline 115.4mg + demeclocycline 69.2mg + tetracycline 115.4mg. NOT/kg. >12yr: 1 tab 12H oral.

Chlorthalidone. 2mg/kg (max 100mg) 3 times a wk oral.

Chlorzoxazone. 5-15mg/kg (adult 250-750mg) 6-8H oral.

Cholecalciferol (Vitamin D3). 1 mcg = 40u = 1mcg ergocalciferol (qv). Osteodystrophy: 0.2mcg/kg (hepatic) 15-40mcg/kg (renal) daily oral.

Cholera (Vaxchora). Live. 18-64yr: single oral dose protects for at least 6mo.

Cholera, whole cell plus toxin b subunit recombinant vaccine (Dukoral). Inanimate. Dissolve granules in 150ml water. 2-6yr: give 75ml x3 doses 1wk apart oral, boost after 6mo. >6yr: give 150ml x2 doses 1wk apart, boost after 2yr.

Cholestyramine. NOT/kg. 1g (<6yr) 2-4g (6-12yr) 4g (>12yr) daily oral, incr over 4wk to max 1-2x initial dose 8H.

Cholic acid. 10-15mg/kg in 1-2 divided doses oral.

Choline magnesium trisalicylate. See aspirin.

Choline salicylate, mouth gel (Bonjela). Apply 3H pm.

Choline theophyllinate (200mg = theophylline 127mg). See theophylline.

Choriogonadotropin alfa. Adult, NOT/kg: 250mcg SC.

Chorionic gonadotrophin. NOT/kg. Cryptorchidism all ages: 500-1000u x1-2/wk for 5wk. After FSH: 10,000iu IM once. Men: 7000iu IM x2/wk, with 75iu FSH and 75iu LH IM x3/wk.

Chymopapain. Adult, NOT/kg: 2000-4000 picokatal units per disc, max 10,000 picokatal units per patient.

Ciclesonide. Inhaltn 80-160mcg (6-12yr) 80-320mcg (>12yr) 12-24H. Nasal >5yr: pump 2 spray (100mcg) or aerosol 1 spray (37mcg) per nostril once daily.

Ciclopirox. 1% cream, lotion: 12H; 8% lacquer daily for 48wk.

Ciclosporin. See cyclosporin.

Cidofovir. 5mg/kg IV over 1hr, in 1wk, then every 2wk; 20 ml/kg fluid IV before and after infsn, probenecid 1-1.25mg/m² 3hr before infsn and 1hr and 8hr after. Papilloma: inj 6.25 mg/ml soltn (max total 0.6mg/kg) ≥2wkly.

Cilazapril. Usually 0.02-0.1mg/kg (adult 1-5mg) daily oral. Renal hypertension: 0.005-0.01mg/kg daily oral.

Cilostazol. Adult, NOT/kg: 100mg 12H oral.

Cimetidine. Oral: 5-10mg/kg (adult 300-400mg) 6H, or 20 mg/kg (adult 800mg) nocte. IV: 10-15mg/kg (adult 200mg) 12H (newborn), 6H (>4wk).

Cinacalcet. Adult, NOT/kg 30mg daily oral, incr every 2-4wk

(to max 180mg) to control parathyroid hormone level. Parathyroid carcinoma: 30mg 12H, incr every 2-4wk if reqd to control serum Ca to max 90mg 6H oral.

Cinchocaine. Max dose 2mg/kg (0.4ml/kg of 0.5%) by injection. Oint 0.5% with hydrocortisone 0.5%: apply 8-24H.

Cinnarizine. 0.3-0.6mg/kg (adult 15-30mg) 8H oral. Periph vasc dis: 1.5mg/kg (adult 75mg) 8H oral.

Cinnarizine 20mg + dimenhydrinate 40mg. Adult 1 tab 8H.

Cinoxacin. 10mg/kg (adult 500mg) 12H oral.

Ciprofibrate. 2-4mg/kg (adult 100-200mg) daily oral.

Ciprofloxacin. 10-15mg/kg (max 500mg) 12H oral, 10mg/kg (adult 200-300mg) 12H IV. Severe infn, or cystic fibrosis: 20mg/kg (max 750mg) 12H oral, 10mg/kg (max 400mg) 8H IV; higher doses used occasionally. Meningococcus proph: 15mg/kg (max 500mg) once oral.

Ciprofloxacin, eye drops. 0.3%. Corneal ulcer: 1drop /15min for 6hr then 1drop/30min for 18hr (day 1), 1drop 1H (day 2), 1drop 4H (day 3-14). Conjunctivitis: 1 drop 4H; if severe 1 drop 2H when awake for 2 days, then 6H.

Ciprofloxacin, eye ointment. 0.3%. Apply 1.25cm 8H for 3 days, then 12H for 3 or more days.

Ciprofloxacin, otic. 6%. Suction effusion, then inject 0.1ml (6mg) into middle ear before inserting tympanostomy tube.

Cisapride. 0.2mg/kg (max 10mg) 6-8H oral.

Cisatracurium. 0.1mg/kg (child) or 0.15mg/kg (adult) IV stat, then 0.03mg/kg if reqd or 1-3mcg/kg/min. ICU: 0.15 mg/kg stat, then (1-10mcg/kg/min) IV.

Cisplatin. 60-100mg/m² IV over 6hr every 3-4wk x6 cycles.

Citalopram. 0.4mg/kg (adult 20mg) daily, incr if reqd over 4wk to max 0.4mg/kg (adult 60mg) daily oral.

Citric acid 0.25g + potassium citrate 1.5g. Urine alkalinisation >6yr (NOT/kg): 2 tab 8-12H oral.

Cladribine. Hairy cell leuk: usually 0.09mg/kg/day for 7 days by continuous IV infsn. Ch lymph leuk: 0.12mg/kg/day over 2hr IV on days 1-5 of 28 day cycle, max 6 cycles.

Clarithromycin. 7.5-15mg/kg (adult 250-500mg) 12H oral.

Slow release tab, Adult, NOT/kg: 0.5g or 1g daily. H.pylori, see omeprazole.

Clavulanic acid. See amoxycillin, ticarcillin.

Clemastine. 0.02-0.06mg/kg (adult 1-3mg) 12H oral.

Clenbuterol. Adult, NOT/kg: 20mcg (up to 40mcg) 12H oral.

Clevidipine. Adult, NOT/kg: 1mg/hr incr every 5min to 4-6mg/hr (max 16mg/hr) IV.

Clidinium. 0.05-0.1mg/kg (adult 2.5-5mg) 6-8H oral.

Clindamycin. 6mg/kg (adult 150-450mg) 6H oral. IV, IM: 5 mg/kg 12H (preterm <1wk old), 5mg/kg 8H (preterm >1wk, term <1wk), 7.5mg/kg 8H (term >1wk), >28 days 10mg/kg (adult 600mg) 8H. Severe infn (>28 days): 15-20 mg/kg (adult 900mg) 8H IV over 1hr. Malaria: 10mg/kg stat then 5 mg/kg 8H IV or 7mg/kg 8H oral x7days. Acne soltn 1%: 12H.

Clindamycin 1.2% + tretinoin 0.025%. Acne gel: apply daily.
Clioquinol. 10mg/g cream, 100% powder: apply 6-12H.
Clioquinol 1% + flumetasone 0.02%. 2-3 drops/ear 8-12H.
Clioquinol 1% + hydrocortisone 1% cream. Apply 8-24H.
Clobazam. 0.1mg/kg (adult 10mg) daily oral, incr if reqd to max 0.4mg/kg (max 30mg) 12H oral.
Clobetasol. 0.05% spray, cream, ointment, gel, solution, foam, lotion, shampoo: apply 12H.
Clobetasone. 0.1% soltn: 1drop/eye 1-6H.
Clocortolone. Cream 0.1%: apply 8H.
Clodronate. 10-30mg/kg (adult 0.6-1.8g) IV over 2hr every 2mo; or 6mg/kg (adult 300mg) IV over 2hr daily x7 days, then 15-30mg/kg (adult 0.8-1.6g) 12H oral.
Clofarabine. 52mg/m² IV over 2hr for 5 days every 2-6wk.
Clofazimine. 2mg/kg (adult 100mg) daily oral. Lepa reaction: up to 6mg/kg (max 300mg) daily for max 3mo.
Clofibrate. 10mg/kg 8-12H oral.
Clomethiazole. Cap (192mg base) equivalent action to 5ml syrup (250mg edisilate). Adult, NOT/kg: 1-2 cap, or 5-10ml syrup, at bedtime oral. Alcohol withdrawal: IV (edisilate 0.8%): 1-2ml/kg (8-16 mg/kg) over 15min, then 0.5-1ml/kg/hr (4-8mg/kg/hr); capsule 192 mg base, Adult, NOT/kg: 2-4cap stat (may repeat in 1-2hr), then 1-2cap 8H, oral.
Clomiphene. Adult, NOT/kg: 50mg daily for 5 days oral, incr to 100mg daily for 5 days if no ovulation.
Clomipramine. 0.5-1mg/kg (adult 25-50mg) 12H oral, incr if reqd to max 2mg/kg (adult 100mg) 8H.
Clonazepam. 1 drop = 0.1mg. 0.01mg/kg (max 0.5mg) 12H oral, slowly incr to 0.1mg/kg (max 5mg) 6-12H oral. Status (may be repeated if ventilated), NOT/kg: neonate 0.25mg, child 0.5mg, adult 1mg IV; reapeat after 15min if reqd.
Clonidine. Hypertension: 1-5mcg/kg slow IV, 1-6mcg/kg (adult 50-300mcg) 8-12H oral. Migraine: start with 0.5mcg/kg (adult 50-75mcg) 12H oral. ADHD (NOT/kg): 0.1mg daily ER-tab oral, incr to max 0.2mg 12H. Analgesia: 2.5mcg/kg premed oral, 0.3mcg/kg/hr IV, 1-2mcg/kg local block; ventld 0.5-2mcg/kg/hr <12kg put 50mcg/kg in 50ml saline at 0.5-2ml/hr, >12kg put 25mcg/kg in 50ml saline at 1-4ml/hr.
Cloпамide 5mg + pindolol 10mg. Adult: 1-2 tab (max 3 tab) daily oral.
Clopidogrel. Child 0.2mg/kg daily, adult 75mg daily oral (note higher dose in adults). Poor converters to active form (15-30% CYP2C19 variant) need higher doses, or pasugrel.
Clorazepate. 0.3-2mg/kg (adult 15-90mg) daily at night oral, or 0.1-0.5mg/kg (adult 5-30mg) 8H.
Clostridia antitoxin. See gas gangrene antitoxin.
Clotrimazole. Topical: 1% cream or solution 8-12H. Vaginal (NOT/kg): 1% cream or 100mg tab daily for 6 days, or 2% cream or 500mg tab daily for 3 days. Oral candida (NOT/kg): 10mg lozenge dissolved in mouth x5/day for 14 days.

Cloxacillin. 15mg/kg (adult 500mg) 6H oral, IM or IV. Severe infn: 25-50mg/kg (adult 1-2g) IV 12H (1st wk life), 8H (2-4wk), 4-6 H (>4wk) or constant infsn (>4wk).

Clozapine. 0.5mg/kg (max 25mg) daily oral, incr over 2-3wk to 5mg/kg (max 200mg) daily; max 5mg/kg (adult 300mg) 12H.

Coal tar, topical. 0.5% incr to max 10%, applied 6-8H.

Cobicistat. Adult, NOT/kg: 150mg daily oral. See atazanavir, darunavir.

Cobicistat 150mg + elvitegravir 150mg + emtricitabine 200mg + (tenofovir alafenamide 10mg or tenofovir disoproxil fumarate 300mg). Adult, NOT/kg: 1 tab daily oral.

Cobimetinib. Adult, NOT/kg: 60mg daily for 21 of every 28 day cycle oral with vemurafenib.

Cocaine. Topical: 1-3mg/kg.

Co-cyprindiol. See cyproterone acetate + ethinyloestradiol.

Co-danthramer, co-danthrusate. See dantron.

Codeine. Inactive in $\approx 10\%$ of adults, poor activity in children <5yrs. Analgesic: 0.5-1mg/kg (adult 15-60mg) 4-6H oral, IM, SC. Cough: 0.25-0.5mg/kg (adult 15-30mg) 6H.

Codeine + guaiacol. 7mg/75mg per 5ml. Adult, NOT/kg: 10ml 8H oral.

Co-dergocrine mesylate. Adult, NOT/kg: 3-4.5mg daily before meal oral or subling; 300mcg daily IM, SC or IV infsn.

Coenzyme Q10. See ubiquinone.

Colaspase. Test 2-50u intradermal. Typical dose 6000u/m² every 3rd day x9 doses IV over 4hr, IM or SC.

Colchicine. Acute gout: 0.02mg/kg (adult 1mg) 2H oral (max 3 doses/day). Chronic use (gout, FMF): 0.01-0.04mg/kg (adult 0.5-2mg) daily oral.

Colecalciferol. 1mcg = 40iu. NOT/kg. 25mcg (<12mo) 75-100mcg (>12mo) daily oral. Prophylaxis: 10mcg daily oral.

Colesevelam. 625mg tab. Adult, NOT/kg: 3 tab 12H oral, or 6 tab daily. With statin: 4-6 tab/day (in 1-2 doses).

Colestipol hydrochloride. 0.1-0.2g/kg (adult 5-10g) 8H oral.

Colestyramine. See cholestyramine.

Colfosceril palmitate (Exosurf Neonatal). Soltn 13.5 mg/ml. Prophylaxis: 5ml/kg intratracheal over 5min straight after birth, and at 12hr and 24hr if still ventilated. Rescue: 5ml/kg intratracheal over 5min, repeat in 12hr if still ventilated.

Colistimethate. See colistin sulfomethate sodium.

Colistin sulphomethate sodium. 2.6mg = 1mg colistin base = 30,000u. IM, or IV over 5min: 40,000u/kg (adult 2 million u) 8H, or 1.25-2.5mg/kg of colistin base 12H. Oral or inhaled: 30,000-60,000 u/kg (adult 1.5-3 million u) 8H.

Colistin 3mg/ml + neomycin 3.3mg/ml. Otic: 4 drops 8H.

Collagenase. Ointment 250u/g: apply daily.

Colonic lavage, macrogol-3350 and macrogol-4000 (polyethylene glycol) 105g/L. Poisoning, severe constipation: if bowel sounds present, 25ml/kg/hr (adult 1.5L/hr) oral or NG for 2-4hr (until rectal effluent clear). Before colonos-

copy: clear fluids only to noon, 1 whole 5mg bisacodyl tab per 10kg (adult 4 tab) at noon, wait for bowel motion (max 6hr), then macrogol 4g/kg (adult 200g) in 40ml/kg fluid (adult 2L) over 2hr oral or NG. See Macrogol 3350 in Gatorade.

Colony stimulating factors. See ancestrim, epoetin, filgrastim, lenograstim, molgramostim, sargramostim.

Coloxyl. See docusate sodium.

Conestat alfa. 50u/kg (max 4200u) IV, may repeat in 24hr.

Conivaptan. Adult, NOT/kg: 20mg over 30min IV, then 20mg (max 40mg) over 24hr by IV infusion.

Conjugated oestrogens (CO) + medroxyprogesterone (MP). NOT/kg. CO (NOT/kg): 0.625mg (0.3-1.25mg) daily continuously, with MP 10mg (up to 20mg) daily oral for last 10-14 days of 28 day cycle.

Corifollitropin alfa. Adult, NOT/kg: 100mcg (≤ 60 kg) 150mcg (> 60 kg) SC, GnRH day 5-6, FSH for 6-18 days from day 8.

Corticorelin. 1-2mcg/kg (max 100mcg) IV.

Corticotrophin releasing factor, hormone. See corticorelin.

Cortisone acetate. 1-2.5mg/kg 6-8H oral. Physiological: 7.5 mg/m² 8H. Cortisone acetate 1mg = hydrocortisone 1.25mg in mineralo- and gluco-corticoid action.

Cosyntropin (ACTH subunit). NOT/kg: < 2 yr 0.125mg, > 2 yr 0.25-0.75mg IM, IV, or infused over 4-8hr.

Cotrimoxazole (trimethoprim 1mg : sulphamethoxazole 5mg). TMP 4mg/kg (adult 80-160mg) 12H IV over 1hr or oral. Renal proph: TMP 2mg/kg (max 80mg) daily oral. P jirovecii: proph TMP 5mg/kg daily on 3 days/wk; treatment (Siber, Rev Infect Dis 1982;4:566-78) TMP 250mg/m² stat, then 150mg/m² 8H (< 11 yr) or 12H (> 10 yr) IV in 5%D over 1hr; in renal failure dose interval (hr) = serum creatinine (mmol/L) x 135 (max 48hr); 1hr post-infsn serum TMP 5-10 mcg/ml, SMX 100-200mcg/ml. IV infsn: TMP max 1.6 mg/ml in 5%D via central line.

Coumarin. Oral: 1-8mg/kg (adult 50-400mg) daily. Cream 100mg/g: apply 8-12H.

Coxiella burnetti vaccine. Inanimate. 0.5ml SC once.

Crisantaspase. See colaspase.

Crizotinib. Adult, NOT/kg 250mg 12H oral.

Crofelemer. Adult, NOT/kg: 125mg slow-rel tab 12H oral.

Cromoglycate. Inhalation (incr to 3-4H if severe): 1 cap (20mg) 6-8H, 2ml soltn (20mg) 6-8H, aerosol 10-20mg 6-8H. Eye drops 2%: 1 drop/eye 4-6H. Oral: 5-10mg/kg (max 200 mg) 6H oral. Nasal 2% or 4%: 1 dose to each nostril 3-12H.

Cromolyn, sodium. See sodium cromoglycate.

Crotamiton. 10% cream or lotion: apply x2-3/day.

Cryoprecipitate. Low factor 8: 1u/kg incr activity 2% (half life 12hr); usual dose 5ml/kg or 1bag/4kg 12H IV for 1-2 infsn (muscle, joint), 3-6 infsn (hip, forearm, retroperitoneal, oropharynx), 7-14 infsn (intracranial). Low fibrinogen: usually 5ml/kg or 1bag/4kg IV. Bag usually 20-30ml: factor 8 about

5u/ml (100u/bag), fibrinogen about 10mg/ml (200mg/bag).

Cyanocobalamin (Vit B12). 20mcg/kg (adult 1000mcg) IM daily for 7 days then wkly (treatment), monthly (prophylaxis). IV dangerous in megaloblastic anaemia. Maintenance treatment (adult NOT/kg): 50-150mcg daily oral; 50mcg (incr if reqd to 100mcg) daily nasal, or 500mcg wkly nasal. Transcobalamin II deficiency: 1000mcg x3/wk for 1yr, then wkly.

Cyclizine. 1mg/kg (adult 50mg) 8H oral, IM, IV. See morphine.

Cyclizine 30mg + dipipanone 10mg. Adult, NOT/kg: 1 tab 6H oral, incr by ½ tab if reqd to max 3 tab 6H.

Cyclizine 50mg + ergotamine 2mg. Adult, NOT/kg: 1 tab stat, then ½-1 every 30min; max 4/attack, 6/wk.

Cyclobenzaprine. 0.2-0.4mg/kg (adult 5-15mg) 8H oral. Extended-release (adult, NOT/kg): 15mg or 30mg daily oral.

Cyclopenthiiazide. 5-10mcg/kg (adult 250-500mcg) 12-24H.

Cyclopentolate. 0.5%, 1%: 1 drop/eye, repeat after 5min. Pilocarpine 1% speeds recovery.

Cyclophosphamide. A typical regimen is 600mg/m² IV over 30min daily for 3 days, then 600mg/m² IV wkly or 10mg/kg twice wkly (if leucocytes >3000/mm³).

Cycloserine. 5-10mg/kg (adult 250-500mg) 12H oral. Keep plasma conc <30mcg/ml.

Cyclosporin. 1-3mcg/kg/min IV for 24-48hr, then 5-8mg/kg 12H reducing by 1mg/kg/dose each mo to 3-4 mg/kg/dose 12H oral. Eczema, juvenile arthritis, nephritic synd, psoriasis: 1.25-2.5mg/kg 12H oral. Usual target trough levels by Abbott TDx monoclonal specific assay (x 2.5 = non-specific assay level) on whole blood: 100-250 ng/ml (marrow), 300-400 ng/ml first 3mo then 100-300 ng/ml (kidney), 200-250 first 3mo then 100-125 (liver), 100-400ng/ml (heart, lung).

Cyclosporin ophthalmic. 0.05% 1 drop in each eye 12H.

Cyclosporine. See cyclosporin.

Cyproheptadine. 0.1mg/kg (adult 4mg) 6-8H oral. Migraine 0.1mg/kg (adult 4mg), repeated in 30min if reqd.

Cyproterone. 1mg/kg (adult 50mg) 8-12H oral. Prec puberty: 25-50mg/m² 8-12H oral. Hyperandrogenism: 50-100mg daily days 5-14, with oestradiol valerate 1mg daily days 5-25. Prostate carcinoma (NOT/kg): 100mg 8-12H oral. See also oestradiol + cyproterone.

Cyproterone 2mg + ethinyloestradiol 35mcg x 21 tab, + 7 inert tab. In females for acne, contraception, or hirsutism: 1 tab daily, starting 1st day of menstruation.

Cysteamine. 0.05mg/m² 6H oral, incr over 6wk to 0.33 mg/m²/dose (<50kg) or 0.5mg/kg/dose (>50kg) 6H.

Cytarabine. Usually 100mg/m² daily for 10 days by IV injn or constant infsn. Intrathecal: 30mg/m² every 4 days until CSF normal (dissolve in saline not diluent).

Cytomegalovirus immunoglobn. See immunoglobn, CMV.

Dabigatran. Adult, NOT/kg: 150mg 12H or 220mg daily oral.

Dabrafenib. Adult, NOT/kg 150mg 12H oral with trametinib.

Dacarbazine. 250mg/m² IV daily for 5 days every 3wk, or 1000mg/m² IV every 3wk.

Daclatasvir. Adult, NOT/kg: 60mg + sofosbuvir 400mg ± ribavirin daily oral 12wk (24wk if cirrhosis). See asunaprevir.

Daclizumab. Adult, NOT/kg: 150mg every month SC.

Dactinomycin. Usually 400-600mcg/m² IV daily for 5 days, repeat after 3-4wk.

Dalbavancin. 15mg/kg (adult 1g) IV over 30min, then 7.5 mg/kg (adult 0.5g) 1wk later.

Dalfampridine. Slow release (adult, NOT/kg): 10mg 12H oral.

Dalfopristin 350mg + quinupristin 150mg (Synercid IV). 7.5mg/kg (combined) 8H IV over 1hr.

Dalteparin sodium. Proph (adult): 2500-5000u SC 1-2hr preop, then daily. Venous thrombosis: 100u/kg 12H SC, or infuse 200u/kg/day IV (anti-Xa 0.5-1u/ml 4hr post dose). Haemodialysis: 5-10u/kg stat, then 4-5u/kg/hr IV (acute renal failure, anti-Xa 0.2-0.4u/ml); 30-40u/kg stat, then 10-15 u/kg/hr (chronic renal failure, anti-Xa 0.5-1u/ml).

Danaparoid. Prevention: 15u/kg (adult 750u) 12H SC. Heparin induced thrombocytopenia: 30u/kg stat IV, then 1.2-2u/kg/hr to maintain anti-Xa 0.4-0.8u/ml.

Danazol. 2-4mg/kg (adult 100-200mg) 6-12H oral.

Dantrolene. Hyperpyrexia: 1mg/kg/min until improves (max 10mg/kg), then 1-2mg/kg 6H for 1-3day IV or oral. Spasticity: 0.5mg/kg (adult 25mg) 6H, incr over 2wk if reqd to 3mg/kg (adult 50-100mg) 6H oral.

Dantron + docusate (co-danthrusate). NOT/kg. 50/60mg cap: 7-12yr 1cap, adult 1-3cap at night. 50/60mg in 5ml: 1-6yr 2.5ml, 7-12yr 5ml, adult 5-15ml at night.

Dantron + poloxamer 188 (co-danthramer). NOT/kg. 25/200mg cap: 7-12yr 1cap, adult 1-3cap at night. 25/200mg in 5ml: 1-6yr 2.5ml, 7-12yr 5ml, adult 5-15ml at night.

Dapagliflozin. Adult, NOT/kg: 5-10mg daily oral.

Dapagliflozin + metformin. 5/500, 5/1000, 10/500, 10/1000mg ER tabs. 1 ER tab 12H daily oral.

Dapoxetine. NOT/kg: 30mg 1-3hr before sex, max x1/day.

Dapsone. 2mg/kg (<10yr) 50mg (10-15yr) 100mg (>15yr) daily oral. P jirovecii: 2mg/kg (max 100mg) daily oral with trimethoprim 5mg/kg 6H. Derm herpet: 1-6mg/kg (adult 50-300mg) daily oral.

Dapsone 100mg + pyrimethamine 12.5mg (Maloprim). 1-4yr quarter tab wkly, 5-10yr ½tab, >10yr 1tab.

Daptomycin. 4mg/kg IV over 30min daily. Severe inftn: 8-10 mg/kg IV daily.

Daratumumab. 16mg/kg IV wkly for 8wk, then every 2wk wks 9-24, then every 4wk.

Darbepoetin alfa. Incr or reduce dose if reqd by 25% every 4wk. Renal failure: 0.45mcg/kg wkly or 0.75mcg/kg 2wkly (0.75mcg/kg wkly if not on dialysis) SC or IV. Cancer: 6.75 mcg/kg every 3wk, or 2.25mcg/kg every wk, SC or IV.

Darifenacin. Adult, NOT/kg: 7.5-15mg daily oral.

Darunavir (DRV). Adult, NOT/kg: 600mg 12H with food oral.

Darunavir + cobicistat. Adult, NOT/kg: 800/150mg daily oral.

Darunavir + ritonavir. 20-29kg: 375/50mg 12H with food; 30-39kg: 450/60mg 12H; ≥ 40 kg: 600/100mg 12H. ≥ 18 yr: 800/100mg (naïve) 600/100mg (past Rx) daily with food.

Dasabuvir. Adult, NOT/kg: 250mg tab 12H + ombitasvir-paritaprevir-ritonavir 12.5/75/50mg 2 tab daily $\pm$ ribavirin 500mg (>75 kg 600mg) 12H oral for 12-14wk.

Dasabuvir + ombitasvir + paritaprevir + ritonavir ER. 200/8.33/50/33.3mg. Adult, NOT/kg: 3 tab daily oral for 12wk.

Dasatinib. Adult, NOT/kg: 70mg (up to 100mg) 12H oral.

Daunorubicin. 30mg/m² wkly slow IV, or 60-90mg/m² every 3wk. Max total dose 500mg/m².

DDAVP. See desmopressin.

Decitabine. 15mg/m² IV over 3hr 8H for 3 days, repeated every 6wk (minimum of 4 cycles).

Deferasirox. 20-40mg/kg (Exjade) or 14-28mg/kg (Jadenu) daily oral; monitor ferritin.

Deferiprone. 25mg/kg 8H (max 100mg/kg/day) oral.

Deferoxamine. See desferrioxamine.

Defibrotide. 6.25mg/kg 6H IV over 2hr for minimum 21 days.

Deflazacort. Usually 0.1-1.5mg/kg (adult 5-90mg) 24-48H oral. 1.2 mg = 1mg prednisolone in glucocorticoid activity.

Degarelix. Adult, NOT/kg: 240mg in two SC injections, then 80mg SC every 4wk.

Delavirdine. Adult, NOT/kg: 400mg 8H, or 600mg 12H oral.

Delta-9-tetrahydrocannabinol. See cannabidiol.

Demecarium bromide. 0.125%, 0.25% ophthalmic soltn. Glaucoma: 1 drop x2/day to x2/wk. Strabismus: 1 drop daily for 2wk, then 1 drop alternate days for 2-3wk.

Demeclocycline. >8 yr: 3mg/kg (adult 150mg) 6H, or 6mg/kg (adult 300mg) 12H oral. See also chlortetracycline.

Denileukin diftitox. 9-18mcg/kg daily IV over 15min for 5 consecutive days every 21 days.

Denosumab. Adult, NOT/kg. Osteoporosis: 60mg every 6mo SC, with calcium 1000mg daily and at least 400iu vitamin D daily. Prostate cancer: 120mg SC every 4wk.

Deoxycholic acid. 10mg/ml. NOT/kg: 2mg/cm² SC 1cm apart.

Dequalinium. NOT/kg: one 0.25mg pastile 4H oral.

Deserpidine. 0.005-0.02mg/kg (adult 0.25-1mg) daily oral.

Desferrioxamine. Antidote: 10-15mg/kg/hr IV for 12-24hr (max 6g/24hr) if Fe >60 -90umol/L at 4hr or 8hr; some also give 5-10g (NOT/kg) once oral. Thalassaemia (NOT/kg): 30-60mg/kg daily over 8-12hr 5-7 days a wk.

Desflurane. Usually child 5-10%, adult 3-8% by inhalation.

Desipramine. 2-4mg/kg (adult 100-200), occasionally incr up to 6mg/kg (adult 300mg), daily oral.

Desirudin. 0.3mg/kg (adult 15mg) 12H SC.

Desloratadine. 0.1mg/kg (adult 5mg) daily oral.

Desmopressin (DDAVP). 1u = 1mcg. NOT/kg. Enuresis, at night, >6yr: 200-400mcg oral, 120-240mcg subling, 10-40 mcg nasal. DI: 1-5mcg (1mo-2yr) 5mcg (2-12yr) 5-10mcg (>12yr) 12H nasal (more at night); 10mcg (<2yr) 50mcg (2-12yr) 50-100mcg (>12yr) x2-3/day oral; 2-18yr 60mcg 8H subling; 0.025mcg/kg (max 4mcg) in 1-2 doses/day SC, IM, IV. IV infsn: 0.5-2mcg in 1L fluid, and replace urine output + 10% hrly (vasopressin preferable). T½ 1-3hr. More potent and longer acting than vasopressin.

Desogestrel. Contraception: 75mcg daily oral, starting 1st day of menstruation.

Desogestrel + ethinyloestradiol. 150/30, 150/20mcg x21 tab, + 7 inert tab. Contraception: 1 tab daily, starting 1st day of menstruation.

Desonide. 0.05% cream, ointment, lotion; apply 8-12H.

Desoximetasone. See desoxymethasone.

Desoxymethasone. 0.05%, 0.25% cream, oint, gel; apply 12H.

Desoxyribonuclease. See fibrinolysin.

Desvenlafaxine. Adult, NOT/kg; 50-100mg daily oral.

Dexamethasone. Biological half life 2-3 days. Mild croup: 0.15mg/kg oral once. Severe croup, extubtn stridor, bronchiolitis: 0.6mg/kg (max 20mg) IV or IM stat, then prednisolone 1mg/kg 8H oral. Cerebral edema: 1mg/kg (max 12mg) stat, then 0.25mg/kg 6H IM or IV. Meningitis: 0.15mg/kg (max 12mg) 6H IV for 4 days. Antiemetic: 0.5 mg/kg (adult 16mg) daily IM, IV, oral. BPD: 0.4mg/kg daily for 3 days, then 0.3mg/kg 3 days, 0.2mg/kg 3 days, 0.1 mg/kg 3 days, 0.05mg/kg 7 days. Cong adn hypopl: 0.27 mg/m² daily oral. Eye drops 0.1%; 1 drop/eye 3-8H. Dexamethasone has no mineralocorticoid action; 1mg = 25mg hydrocortisone in glucocorticoid action.

Dexamethasone 0.5mg/ml (0.05%) + framycetin 5mg/ml (0.5%) + gramicidin 0.05mg/ml (0.005%) (Sofradex). Eye 1 drop 1-3H, ear 2-3 drops 6-8H, ointment 8-12H.

Dexamethasone 0.1% + neomycin 0.35% + polymyxin 6000u/g. 1drop/eye 6-8H.

Dexamethasone 0.1% + tobramycin 0.3%. Usually 1drop/eye 4-6H; up to 2H for 2 days after surgery if reqd.

Dexamethasone 20mcg + tramazoline 120mcg per dose. Aerosol: 1 puff in each nostril 4-8H.

Dexamphetamine. 0.2mg/kg (max 10mg) daily oral, incr if reqd to max 0.5mg/kg (max 20mg) 12H. See amphetamine.

Dexchlorpheniramine maleate. 0.05mg/kg (adult 2mg) 6-8H oral. Repetab (adult NOT/kg): 6mg 12H oral.

Dexibuprofen. Adult, NOT/kg: 400mg 12H (max 8H) oral.

Dexketoprofen. Adult, NOT/kg: 12.5mg 4-6H, or 25mg 8H (max 75mg/day) oral.

Dexlansoprazole. 1-2mg/kg (adult 30-60mg) daily oral.

Dexmedetomidine. ICU: 0.4 (0.2-1.0) mcg/kg/hr IV (sometimes after 1mcg/kg load over 20 min). Procedure: 0.5-1 mcg/kg IV over 10-20min, then 0.6 (0.2-1) mcg/kg/hr. T½ 2hr.

Dexmethylphenidate. NOT/kg, given as two doses/day 4hr apart: 2.5mg/dose oral, incr if reqd to 10mg/dose. Long-acting (NOT/kg): child 5-10mg (adult 5-20mg) daily oral.

Dexpanthenol. 5-10mg/kg (adult 250-500mg) IM. 5% cream: apply 12-24H

Dexrazoxane. 10mg for each 1mg doxorubicin IV. Extravasation of anthracyclines: within 6hr give 1g/m^2 (max 2g) IV over 2hr, repeated after 24hr; then 0.5g/m^2 48hr after first dose.

Dextran 1 (Promit). 15% soltn. 0.3ml/kg IV 1-2min before giving dextran 40 or dextran 70.

Dextran 40. 10% soltn: 10ml/kg x1-2 on day 1, then 10 ml/kg/day IV. Half life about 3hr.

Dextran 70. 6% soltn: 10ml/kg x1-2 on day 1, then 10 ml/kg/day IV. Half life about 12hr.

Dextroamphetamine. See dexamphetamine.

Dextromethorphan. 0.2-0.4mg/kg (adult 10-20mg) 6-8H oral.

Dextromethorphan 20mg + quinidine 10mg. Adult; NOT/kg: 1 cap daily for 7 days, then 1 cap 12H oral.

Dextromoramide. 0.1mg/kg (adult 5mg) 8H, may incr to 0.5mg/kg (adult 20mg) 8H oral or PR.

Dextrose. Infant sedation (NOT/kg): 1ml 50%D oral. Hypoglycaemia: 0.5ml/kg 50%D or 2.5ml/kg 10%D slow IV, then incr maintenance mg/kg/min. Hyperkalaemia: 0.1u/kg insulin + 2ml/kg 50%D IV. Neonates: 6g/kg/day (about 4mg/kg/min) day 1, incr to 12g/kg/day (up to 18g/kg/day with hypoglycaemia). Infsn rate (ml/hr) = $(4.17 \times \text{Wt} \times \text{g/kg/day}) / \%D = (6 \times \text{Wt} \times \text{mg/kg/min}) / \%D$. Dose (g/kg/day) = $(\text{ml/hr} \times \%D) / (4.17 \times \text{Wt})$. Dose (mg/kg/min) = $(\text{ml/hr} \times \%D) / (6 \times \text{Wt})$. mg/kg/min = g/kg/day / 1.44. 0.5ml/kg/hr of 50% = 6g/kg/day.

Dextrose-heparin (dex-hep). Dextrose soltn (usually 5%) with heparin 1u/ml.

Dezocine. IM: 0.1-0.4mg/kg (adult 5-20mg) 3-6H. IV: 0.05-0.2mg/kg (adult 2.5-10mg) 2-4H.

3,4-Diaminopyridine. Adult, NOT/kg: 10mg 6-8H oral, incr if reqd to max 20mg x5/day.

Diamorphine. Adult, NOT/kg: 5-10mg 4H IV, IM, SC, oral.

Diazepam. 0.04-0.2mg/kg (adult 2-10mg) 8-12H oral. Seizure (repeat after 15min if reqd): 0.1-0.4mg/kg (max 10mg) IV; 0.3-0.5mg/kg (max 20mg) PR. Do not give by IV infsn (binds to PVC); emulsion can be infused. Premed: 0.2-0.4mg/kg oral, PR. 2-3mg = 1mg midazolam.

Diazoxide. Hypertension: 1-3mg/kg (max 150mg) stat by rapid IV injection (severe hypotension may occur) repeat once if reqd, then 2-5mg/kg IV 6H. Hyperinsulinism: <12mo 5mg/kg 8-12H oral; >12mo 30-100mg/m² per dose 8H oral.

Diboterminalfa. 8ml of 1.5mg/ml spread evenly on matrix.

Dibromopropamidine. 0.15% cream on dressing prn.

Dibucaine. See cinchocaine.

Dichloralphenazone 100mg + isometheptene mucate 65mg + paracetamol 325mg. Adult, NOT/kg: 2 capsules

- stat, then 1/hr if reqd (max 5cap in 12hr).
- Dichlorobenzene.** See arachis oil + chlorbutol.
- Dichlorphenamide.** 2-4mg/kg (adult 100-200mg) stat, then 2mg/kg (adult 100mg) 12H until response, then 0.5-1mg/kg (adult 50mg) 8-24H oral.
- Diclofenac.** 0.5-1mg/kg (adult 50mg) 8-12H oral, PR. JIA: 1-1.5mg/kg (max 75mg) 12H oral. Adult, NOT/kg: IV 37.5mg 6H (max 150mg/d); submicron 18mg or 35mg 8H oral; patch 1.3% (180mg) 10x14cm apply 12H. Eye drops 0.1%: preop 1-5 drops over 3hr, postop 1 drop stat, then 1 drop 4-8H. Topical gel 1% (arthritis) 3% (keratoses): apply 2-4g 6-8H.
- Diclofenac + misoprostal.** Adult, NOT/kg. 50mg/200mcg tab 8-12H oral; 75mg/200mcg tab 12H oral.
- Dicloxacillin.** 15-25mg/kg (adult 250-500mg) 6H oral, IM or IV. Severe infn: 25-50mg/kg (max 2g) IV 12H (1st wk life), 8H (2-4 wk), 4-6H or constant infsn (>4 wk).
- Dicobalt edetate.** 10mg/kg (adult 300mg) IV over 1-5min, repeat x2 if no response.
- Dicyclomine.** 0.5mg/kg (adult 10-20mg) 6-8H oral.
- Dicycloverine.** See dicyclomine.
- Didanosine (ddl).** <3mo 50mg/m² 12H oral; 3-8mo 100 mg/m² (max 200mg) 12H; 9mo-12yr 120mg/m² (90-150 mg/m²) 12H; >12yr 250mg (<60kg) 400mg (≥60kg) daily oral. Adult with tenofovir: 200mg (<60kg) 250mg (≥60kg). CNS disease: 150mg/m² 12H.
- Dideoxycytidine (ddC).** See zalcitabine.
- Dienestrol.** See dienoestrol.
- Dienoestrol.** 0.01% vaginal cream: 1 applicatorful (5g) 12-24H for 1-2wk, reducing gradually to x1-3/wk.
- Dienogest.** Adult, NOT/kg: 2mg daily oral.
- Dienogest (Di) + oestradiol valerate OV.** Contraception, daily: day 1-2 OV 3mg; day 3-7 Di 2mg + OV 2mg; day 8-24 Di 3mg + OV 2mg; day 27-28 OV 1mg; (day 25-26) placebo.
- Diethylcarbamazine.** 6mg/kg daily for 12 days oral, or a single dose of 6mg/kg repeated every 6-12 months.
- Diethylpropion.** 6-12yr 25mg (NOT/kg) 12H oral. >12yr 25mg (NOT/kg) 6-8H oral.
- Diethylstilboestrol.** See stilboestrol.
- Difenoxin.** See atropine + diphenoxylate.
- Diflorasone.** 0.05% cream, ointment: apply 6-24H.
- Diflunisal.** 5-10mg/kg (adult 250-500mg) 12H oral.
- Digitoxin.** 4mcg/kg (max 0.2mg) 12H oral for 4 days, then 1-6mcg/kg (adult usually 0.15mg, max 0.3mg) daily.
- Digoxin.** 15mcg/kg stat and 5mcg/kg after 6H, then 3-5 mcg/kg (usual max 200mcg IV, 250mcg oral) 12H slow IV or oral. Level 6hr or more after dose: 1.0-2.5 nmol/L (x0.78=ng/ml).
- Digoxin immune FAB (antibodies).** IV over 30min. Dose (to nearest 40mg) = serum digoxin (nmol/L) x Wt (kg) x 0.3, or mg ingested x 55. Give if >0.3mg/kg ingested, or level

>6.4 nmol/L (5.0ng/ml).

Dihydrazaline. IV infusion: 0.1mg/kg/hr titrated to effect (max 3.5mg/kg/day). Oral: 0.25-1mg/kg 12H.

Dihydroartemisinin 40mg + piperazine 320mg. Oral daily for 3 days: dihydroartemisinin 2.5mg/kg (adult 1.6mg/kg) + piperazine 20mg/kg (adult 12.8mg/kg).

Dihydrocodeine. 0.5-1mg/kg 4-6H oral.

Dihydroergotamine mesylate. Adult, NOT/kg: 1mg IM, SC or IV, repeat hrly x2 if needed. Max 6mg/wk.

Dihydromorphinone. See hydromorphone.

Dihydrotachysterol (1-OH vitamin D2). Renal failure, vit D resistant rickets: 20mcg/kg daily oral, incr by 20mcg/kg every 4-8wk according to serum calcium.

Dihydrotestosterone. See stanolone.

Dihydroxyacetone. 5% soltn: apply 1-3 coats 1hr apart, every 1-3 days.

Diiodohydroxyquin. See di-iodohydroxyquinoline.

Di-iodohydroxyquinoline. 10-13.3mg/kg (adult 650mg) 8H oral for 20 days.

Diloxanide. 10mg/kg (adult 500mg) 8H oral.

Diltiazem. 1mg/kg (adult 60mg) 8H, incr if reqd to max 3mg/kg (adult 180mg) 8H oral. Slow release (adult, NOT/kg): 120-240mg daily, or 90-180mg 8-12H oral.

Dimenhydrinate. 1-1.5mg/kg (max 50-75mg) 4-6H oral,IM,IV.

Dimercaprol (BAL). 3mg/kg (max 150mg) IM 4H for 2 days, then 6H for 1 day, then 12H for 10 days.

Dimethindene. 0.02-0.04mg/kg (adult 1-2mg) 8H oral.

Dimethyl fumarate. Adult, NOT/kg: 120mg 12H oral for 1wk, then 240mg 12H.

Dimethyl sulfoxide (DMSO). 50% soltn: 50ml in bladder for 15 min every 2wk.

Dimeticone. Infant colic (NOT/kg): 42mg/5ml, 2.5ml with feeds (max x6/day). 10%, 15% barrier cream: apply prn.

Dinutuximab. 17.5mg/m² IV over 10-20hr for 4 consecutive days in 24,32,24,32,24-day cycles.

Dinoprost (Prostaglandin F2 alpha). Extra-amniotic: 1ml of 250mcg/ml stat, then 3ml 2H. Intra-amniotic: 40mg stat, then 10-40mg after 24hr if reqd.

Dinoprostone (Prostaglandin E2). Labour induction: 1mg into posterior vagina, may repeat dose 1-2mg after 6hr (max 60mcg/kg over 6hr). Maintain PDA: 25mcg/kg 1H (less often after 1wk) oral; or 0.003-0.01mcg/kg/min IV.

Diethyl sodium sulphosuccinate. See docusate sodium.

Diphemanil methylsulphate. 20mg/g powder: apply 8-12H.

Diphenhydramine hydrochloride. 1-2mg/kg (adult 50-100 mg) 6-8H oral.

Diphenoxylate. See atropine + diphenoxylate (Lomotil).

Diphtheria antitoxin (horse). IM or IV (NOT/kg): 2500u (nasal), 10,000u (unilateral tonsillar), 20,000u (bilateral tonsillar), 30,000u (laryngeal), 50,000u (beyond tonsillar

- fossa), 150,000u (bullneck). Repeat dose may be needed. See also immunoglobulin, diphtheria.
- Diphtheria vaccine, adult (CSL).** Inanimate. 0.5ml IM stat, 6wk later, and 6mo later (3 doses). Boost every 10yr.
- Diphtheria vaccine, child <8yr (CSL).** Inanimate. 0.5ml IM stat, in 6wk, then 6mo (3 doses). Boost with adult vaccine.
- Diphtheria + hepatitis B + Hib + pertussis (acellular) + tetanus vaccine [DaPT-hepB-Hib] (Infanrix Hexa).** Inanimate. 0.5ml IM at 2mo, 4mo, 6mo (3 doses).
- Diphtheria + hepatitis B + pertussis (acellular) + polio + tetanus [DaPT-HepB-IPV] (Pediatrix).** Inanimate. 0.5ml IM at 2mo, 4mo, 6mo (3 doses), and (DaPT) 18mo.
- Diphtheria + hepatitis B + pertussis (acellular) + tetanus vaccine [DaPT-hepB] (Infanrix Hep B).** Inanimate. 0.5ml IM at 2mo, 4mo, 6mo (3 doses), and (without hep B) 18mo.
- Diphtheria + Hib + pertussis (acellular) + polio + tetanus [DaPT-Hib-IPV] (Infanrix Penta, Pediacel).** Inanimate. 0.5ml IM at 2mo, 4mo, 6mo (3 doses), and (DaPT) 18mo.
- Diphtheria + pertussis (acellular) + polio + tetanus vaccine [DaPT-IPV] (Quadracel).** Inanimate. 0.5ml IM at 2, 4 and 6mo (3 doses).
- Diphtheria + pertussis (acellular) + polio + tetanus vaccine [DaPT-IPV] (Infanrix-IPV).** Inanimate. 16mo-13yr: 0.5ml IM once as booster.
- Diphtheria + pertussis (acellular) + polio + tetanus vaccine [daPT-IPV] (Repevax).** Inanimate. >3yr: 0.5ml IM once as booster.
- Diphtheria + pertussis (acellular) + polio + tetanus vaccine, adult [daPt-IPV] (Adacel Polio, Boostrix-IPV).** Inanimate. ≥10yr: 0.5ml IM once as booster.
- Diphtheria + pertussis (acellular) + tetanus vaccine [DaPT] (Tripacel).** Inanimate. 0.5ml IM at 2mo, 4mo, 6mo, 18mo and 4-5yr of age (5 doses).
- Diphtheria + pertussis (acellular) + tetanus vaccine, adult [daPt] (Adacel, Boostrix).** Inanimate. ≥10yr: 0.5ml IM.
- Diphtheria + pertussis (whole cell) + tetanus vaccine [DPT] (Triple Antigen).** Inanimate. 0.5ml IM at 2mo, 4mo, 6mo, 18mo and 4-5yr of age (5 doses).
- Diphtheria + polio + tetanus vaccine [dT-IPV] (Revaxis).** Inanimate. >6yr: 0.5ml IM once as booster.
- Diphtheria + tetanus vaccine, adult [dt] (ADT Booster).** Inanimate. 0.5ml IM for revaccination after primary course.
- Diphtheria + tetanus vaccine, child <8yr [DT] (CDT).** Inanimate. 0.5ml IM, in 6wk, 6mo later (3 dose). Boost with ADT.
- Dipipanone.** See cyclizine.
- Dipivefrin.** 0.1% soltn: 1 drop per eye 12H.
- Diprophylline.** Usually 15mg/kg 6H oral or IM.
- Dipyridamole.** 1-2mg/kg (adult 50-100mg) 6-8H oral. See also aspirin + dipyridamole.
- Dirithromycin.** 10mg/kg (adult 500mg) daily oral.

Disodium clodronate. See sodium clodronate.

Disodium edetate. See trisodium edetate.

Disodium etidronate. See etidronate.

Disodium levofolinate. Half the dose of calcium folinate.

Disodium pamidronate. See pamidronate.

Disodium tiludronate. See tiludronate.

Disopyramide. Oral: 1.5-4mg/kg (adult 75-200mg) 6H. IV: 2mg/kg (max 150mg) over 5min, then 0.4mg/kg/hr (max 800mg/day). Level 9-15umol/L ($\times 0.3395 = \text{mcg/ml}$).

Distigmine. Neurogenic bladder, megacolon: 0.01mg/kg (adult 0.5mg) IM daily, 0.1mg/kg (adult 5mg) oral daily. Myasth gravis: 0.1-0.2mg/kg 12-24H (max 20mg/day) oral.

Disulfiram. Adult, NOT/kg: 500mg oral daily for 1-2wk, then 125-500mg daily.

Dithranol. 0.1%-2% cream, ointment: start with lowest strength, apply daily, wash off after 10min incr to 30min.

Divalproex. Dose as for sodium valproate.

Di-alpha-tocopheryl acetate. See vitamin E.

DMSA. See succimer.

Dobutamine. <30kg: 15mg/kg in 50ml saline at 1-3ml/hr (5-15mcg/kg/min) via CVC or periph IV; >30kg: 6mg/kg in 100 ml saline at 5-15ml/hr (5-15mcg/kg/min). T $\frac{1}{2}$ 2min.

Docetaxel. Initially 75-100mg/m² over 1hr IV every 3wk.

Docosahexaenoic acid. See omega-3-acid esters.

Docosanol. 10% cream: apply 5 times a day.

Docusate. NOT/kg: 100mg (3-10yr), 120-240mg (>10yr) daily oral. Enema (5ml 18% + 155ml water): 30ml (newborn), 60ml (1-12mo), 60-120ml (>12mo) PR.

Docusate 50mg + sennoside 8mg, tab. >12yr: 1-4 tab at night oral. See also bisacodyl; casanthranol; dantron.

Dofetilide. 10mcg/kg (adult 500mcg) 12H oral, less if renal impairment or increased QTc interval.

Dolasetron. Cancer: 1.8mg/kg (adult 100mg) IV 30min before chemo, or 4mg/kg (adult 200mg) oral 1hr before chemo. Surgery: 1mg/kg (adult 50mg) oral at induction, or 0.25mg/kg (adult 12.5mg) IV postop.

Dolutegravir. ≥ 40 kg: 50mg daily oral. See abacavir.

Domperidone. Oral: 0.2-0.5mg/kg (adult 10-20mg) 4-8H. Rectal suppos: Adult, NOT/kg 30-60mg 4-8H.

Donepezil. Adult, NOT/kg: 5mg at night oral, incr to 10mg after 1mo if reqd.

Donepezil + memantine. 14/10, 28/10mg. 1 tab daily oral.

Dopamine. Via CVC <30kg: 15mg/kg in 50ml at 1-3ml/hr (5-15 mcg/kg/min); >30kg: 6mg/kg made up to 100ml at 5-15 ml/hr (5-15mcg/kg/min). T $\frac{1}{2}$ 2min.

Dopexamine. IV infsn 0.5-6mcg/kg/min.

Doripenem. 10mg/kg (adult 500mg) 8H IV.

Dornase alpha (deoxyribonuclease I). NOT/kg: usually 2.5mg (max 10mg) inhaled daily (5-21yr), 12-24H (>21yr).

Dorzolamide. 2% drops: 1 drop/eye 8-12H.

Dorzolamide 2% + timolol 0.5%. 1 drop/eye 12H.

Dosulepin. See dothiepin.

Dothiepin. 0.5-1mg/kg (adult 25-50mg) 8-12H oral.

Doxacurium. 50-80mcg/kg stat, then 5-10mcg/kg/dose IV.

Doxapram. 5mg/kg IV over 1hr, then 0.5-1mg/kg/hr for 1hr (max total dose 400mg).

Doxazosin. Usually 0.02-0.1mg/kg (adult 1-4mg) daily oral.

Doxepin. 0.2-2mg/kg (adult 10-100mg) 8H oral. Insomnia (adult, NOT/kg): 6mg nocte oral. 5% cream: apply x3-4/day.

Doxercalciferol (1,25-OH D2 analogue). Initially 0.2mcg/kg (adult 10mcg) oral, or 0.08mcg/kg (adult 4mcg) IV, x3/wk at end of dialysis. Aim for blood iPTH 150-300pg/ml.

Doxorubicin. 30mg/m² IV over 15min wkly, or 30mg/m² daily for 2-3days every 3-4wk. Max total dose 480mg/m² (300 mg/m² if mediastinal irradiation).

Doxorubicin, liposomal. Carcinoma: 50mg/m² IV every 3wk. Kaposi: 20mg/m² IV every 2wk.

Doxycycline. >8yr, oral or IV. 2mg/kg (adult 100mg) 12H for 2 doses, then daily. Severe: 2mg/kg 12H. Malaria 2.2mg/kg (max 100mg) 12H 7 days; proph 2mg/kg (max 100mg) daily. Acne (NOT/kg): 50mg daily for 6wk, 100mg daily if reqd.

Doxycycline 30mg + 10mg slow release. Rosacea in adults (NOT/kg): 1 tab daily oral.

Doxylamine. 0.25-0.5mg/kg (adult 12.5-25mg) 8H oral. Hypnotic: 0.5-1mg/kg (adult 25-50mg).

Doxylamine 10mg + pyridoxine 10mg. Adult, NOT/kg: 2 tab at night; add 1 tab morning and afternoon if reqd.

D-penicillamine. See penicillamine.

Dronabinol. Initially 5mg/m² 2-4H (max 4-6 doses per day) oral, slow incr by 2.5mg/m²/dose to max 15mg/m² 4H.

Dronedarone. 8mg/kg (adult 400mg) 12H oral.

Droperidol. Antiemetic: postop 0.02-0.05mg/kg (adult 1.25 mg) 4-6H IM or slow IV, chemother 0.02-0.1 (adult 1-5mg) 1-6H. Psychiatry, neuroleptanalg, IM or slow IV: 0.1mg/kg (adult 5mg) stat, incr to max 0.3mg/kg (adult 15 mg) 4-8H.

Drospirenone + oestradiol. 0.5mg/1mg, 2mg/1mg tab. Post-menopause (NOT/kg): 1 tab daily oral.

Drospirenone 3mg + ethinyloestradiol 20mcg + levomefolate 451mcg x 24 tab, + 4 tab levomefolate 451mcg. Contraception: 1 daily starting 1st day of menstruation.

Drospirenone 3mg + ethinyloestradiol 20mcg x 24 tab, + 4 inert tab. Contraceptn: 1 daily starting 1st day of menstruatn.

Drospirenone 3mg + ethinyloestradiol 30mcg x 21 tab + 7 inert tab. Contraceptn: 1 daily starting 1st day menstruatn.

Droxidopa. Adult, NOT/kg: 100mg incr every 1-2 days if reqd to max 600mg orai morning, noon, and late afternoon.

Duaglucide. Adult, NOT/kg 0.75-1.5mg SC once a week.

Duloxetine. Adult, NOT/kg: 20-30mg 12H, or 60mg daily oral.

Dust mite allergen extract. ≥5yr, NOT/kg: 100 IR day1, 200 IR day2, then 300 IR daily sublingual.

Dutasteride. Adult, NOT/kg: 0.5mg daily oral.

Dutasteride 0.5mg + tamsulosin 0.4mg. Adult, NOT/kg: 1 cap daily oral.

Dyclonine hydrochloride. See dyclocaïne hydrochloride.

Dydrogesterone. 0.2mg/kg (adult 10mg) 12-24H oral.

Dydrogesterone + oestradiol. 5/1mg, 10/1, 10/2 tab. Adult, NOT/kg. Postmenopausal: 1 tab daily oral.

Dydrogesterone 10mg tab + oestradiol patch (40 or 80 mcg/24hr). Adult, NOT/kg. Postmenopausal: apply new patch every 3-4 days, 1tab daily oral for last 14days of cycle.

Dyphylline. See diprophylline.

Ecallantide. 0.6mg/kg (adult 30mg) SC, repeat if reqd.

Econazole. Topical: 1% cream, powder or lotion 8-12H.
Vaginal: 75mg cream or 150mg ovule twice daily.

Ecothiopate iodide. 0.03%, 0.06%, 0.125%, 0.25% soltn: usually 0.125% 1 drop/eye every 1-2 days at bedtime.

Eculizumab. 600mg IV over 35min wkiy for 4wk, 900mg the next wk, then 900mg every 2wk.

Edrophonium. Test dose 20mcg/kg (adult 2mg), then 1min later 80mcg/kg (adult 8mg) IV. SVT: 0.15mg/kg (max 2mg) incr to max 0.75mg/kg (max 10mg) IV, with atropine if reqd.

EDTA. See sodium calciumedetate.

Efalizumab. 0.7mg/kg stat, then 1mg/kg wkiy SC.

Efavirenz (EFV). Daily oral 10-14kg 200mg, 15-19kg 250mg, 20-24 kg 300mg, 25-32kg 350mg, 33-39kg 400mg, ≥40kg 600mg (minimum trough 1000 ng/ml).

Efavirenz + fosamprenavir + ritonavir. >18yr: EFV 600mg daily + FPV 700mg 12H + RTV 100mg 12H oral. If Rx naïve, can use EFV 600mg + FPV 1400mg + RTV 300mg daily.

Efavirenz 600mg + emtricitabine 200mg + tenofovir disoproxil fumarate 300mg. ≥40kg: 1 tab daily.

Efinaconazole. 10% 1 drop (2 for big toe) daily for 48wk.

Eflornithine. 13.9% cream: apply 12H.

Eformoterol + fluticasone. 5/50mcg, 5/125, 10/250. NOT/kg. ≥12yr: 2 inhalations 12H.

Eformoterol. 6mcg or 12mcg cap (max 24mcg) inhaled 12H.

Eicosapentaenoic acid. See omega-3-acid esters.

Elbasvir 50mg + grazoprevir 100mg. Adult, NOT/kg: 1 tab daily oral.± ribavirin for 12-16wk.

Electrolyte solution. See glucose electrolyte solution.

Eletriptan. Adult, NOT/kg: 20-40mg, repeat after 2hr if reqd (max 80mg/day).

Eliglustat. NOT/kg: 84mg oral 12H (daily if poor metaboliser).

Eloctate. <6yr 40-80u/kg, ≥6yr 25-65u/kg, IV every 4 days.

Elosulfase alfa. 2mg/kg/wk IV over 4hr.

Elotuzumab. 10mg/kg on days 1,8,15,22 for two 28-day cycles, then on days 1 and 15.

Eltrombopag. Adult, NOT/kg: 25-75mg daily oral.

Eluxadolone. Adult, NOT/kg: 100mg 12H oral.

Elvitegravir. See cobicistat.

Emedastine. 0.5mg/ml soltn: 1 drop/eye 12H.

EMLA cream. See lignocaine + prilocaine.

Empagliflozin. Adult, NOT/kg: 10mg (up to 25mg) daily oral.

Empagliflozin + linagliptin. 10/5mg, 25/5 tab. Adult, NOT/kg: 10/5 daily oral, incr to 25/5 if reqd.

Empagliflozin + metformin. 5/500mg, 5/1000, 12.5/500, 12.5/1000 tab. 1 tab 12H oral with meals.

Emtricitabine (FTC). 0-3mo: soltn 3mg/kg daily oral; >3mo: soltn 6mg/kg (adult 240mg), cap (>33kg) 200mg daily oral.

Emtricitabine 200mg + rilpivirine 25mg + tenofovir alafenamide 25mg. NOT/kg. ≥ 35 kg 1 tab daily oral with food.

Emtricitabine 200mg + rilpivirine 25mg + tenofovir disoproxil fumarate 300mg. Adult, NOT/kg: 1 tab daily oral.

Emtricitabine 200mg + tenofovir alafenamide 25mg. ≥ 12 yr, NOT/kg: 1 tab daily oral.

Emtricitabine 200mg + tenofovir disoproxil fumarate 300mg. ≥ 18 yr: 1tab daily oral. See also efavirenz, cobicistat.

Enalapril. 0.1mg/kg (adult 2.5mg) daily oral, incr over 2wk if reqd to max 0.5mg/kg (adult 5-20mg) 12H.

Enalaprilat. Usually 0.025mg/kg (max 1.25mg) 6H IV, max 0.1mg/kg (max 5mg) 6H.

Endoxaban. Adult, NOT/kg: ≤ 60 kg 30mg, >60 kg 60mg daily oral. Lower dose if taking P-glycoprotein inhibitors.

Enflurane. 2-4.5% induction, then 0.5-3% by inhalation.

Enfuvirtide (ENF). ≥ 6 yr: 2mg/kg (max 90mg) 12H SC.

Enoxacin. 4-8mg/kg (adult 200-400mg) 12H oral.

Enoxaparin (1mg=100u). <3mo 1.8mg/kg, 3-12mo 1.5mg/kg, 1-5yr 1.25mg/kg, >5 yr 1mg/kg (max 40mg) 12H SC; anti-Xa 0.5-1u/ml 4hr post dose. Prophylaxis SC: <2mo 0.75mg/kg 12H, 2mo-18yr 0.5mg/kg 12H, >18 yr 20mg (low risk) 40mg (high risk) 2-12hr preop, then daily SC. Haemodialysis: 1 mg/kg into arterial line at start 4hr session.

Enoximone. IV: 5-20mcg/kg/min. Oral: 1-3mg/kg (adult 50-150mg) 8H.

Entacapone. Adult, NOT/kg: 200mg with each l-dopa/DDC inhibitor dose (av 800-1400mg/day, max 2000mg) oral. See also levodopa.

Entecavir. Hepatitis B (adult, NOT/kg): 0.5mg daily oral; 1mg daily if refractory to lamivudine.

Entravirine. See etravirine.

Enzalutamide. Adult, NOT/kg: 160mg daily oral.

Enzymes, pancreatic. See pancreatic enzymes.

Ephedrine. 0.25-1mg/kg (adult 12.5-60mg) 4-8H oral, IM, SC, IV. Nasal (0.25%-1%): 1 drop each nostril 6-8H, max 4 days.

Epinastine. 0.05% ophthalmic: 1 drop/eye 12H.

Epinephrine. See adrenaline.

Epirubicin. Adult: 75-90mg/m² IV over 10min every 3wk.

Eplerenone. 0.5-1mg/kg (adult 25-50mg) 12-24H oral.

Epoetin alfa, beta, delta, theta, zeta. 50u/kg x3/wk, incr to 75-300u/kg/wk divided into 1-3 doses/wk SC, IV; once Hb

>100g/L give 25-100u/kg x3/wk (or give single wkly dose).

Epoetin as methoxy polyethylene glycol-epoetin beta. 1.2mcg/kg SC monthly, or 0.6mcg/kg SC or IV every 2wk adjusted to Hb 100-120g/L.

Epoprostenol (prostacyclin, PGI₂). Dilute to 2-10mcg/ml, new syringe every 8hr. <8kg: 12mcg/kg in 10ml diluent at 0.25-0.75ml/hr (5-15ng/kg/min); >8kg: 500mcg in 50ml diluent at 0.03-0.09ml/kg/hr (5-15ng/kg/min). ECMO: 5 ng/kg/min IV. Chronic pul ht: 2ng/kg/min IV, incr to 20-40 ng/kg/min. T½ 1min.

Eprosartan. 12mg/kg (adult 600mg) daily, incr if reqd to 6-8mg/kg (adult 300-400mg) 12H oral.

Epsilon aminocaproic acid. See aminocaproic acid.

Eptacog alfa (recombinant factor 7a). See factor 7a.

Eptifibatide. Adult, NOT/kg: 180mcg/kg stat IV, then 2 mcg/kg/min for up to 72hr.

Erdosteine. Adult, NOT/kg: 300mg 12H oral.

Ergocalciferol (Vitamin D₂). 40u = 1mcg = 1mcg cholecalciferol (D₃). Cystic fibrosis, cholestasis: 10-20mcg daily oral. Cirrhosis: adult 40-120mcg daily oral. Deficiency: 50-100mcg daily for 2wk oral, then 10-625mcg daily (more if severe malabs); or 2.5-5mg (100,000-200,000u) every 6-8wk. Monitor serum calcium; measure alk phos and parathyroid hormone after 6-8wk. See also doxercalciferol.

Ergoloid mesylates. See co-dergocrine mesylate.

Ergometrine maleate. Adult, NOT/kg: 250-500mcg IM or IV; 500mcg 8H oral, sublingual or PR.

Ergometrine maleate 0.5mg + oxytocin 5u in 1ml. 1ml IM; may repeat after 2hr, max 3 doses in 24hr.

Ergonovine maleate. See ergometrine maleate.

Ergotamine tartrate. >10yr (NOT/kg): 2mg sublingual stat, then 1mg/hr (max 6mg/episode, 10mg/wk). Suppos (1-2mg): 1 stat, may repeat once after 1hr. See caffeine, cyclizine.

Eribulin. 1.4mg/m² IV over 5min day 1 and 8 of 21-day cycle.

Erlotinib. Adult, NOT/kg: 150 mg daily oral; reduce to 100mg then 50mg daily if reqd.

Ertapenem. <12yr 15mg/kg (max 500mg) 12H, >12yr 1g daily IM, IV over 30min.

Erythromycin. <2mo may cause pyloric stenosis. Oral, slow IV (max 5mg/kg/hr): usually 10mg/kg (adult 250-500mg) 6H; severe infn 15-25mg/kg (adult 0.75-1g) 6H. Rheu fever proph (NOT /kg): 250mg 12H oral. Gut prokinetic; 2mg/kg 8H. 2% gel: apply 12H. Same dose for base, salts and esters, except ethylsuccinate x1.6 higher dose (max 4g/day).

Erythropoietin. See epoetin.

Escitalopram. NOT/kg. >12yr: 5mg daily oral, incr if reqd to max 10mg (rarely 20mg) daily.

Esketamine. See ketamine.

Eslicarbazepine. 8mg/kg (adult 400mg) daily oral, incr to 15 mg/kg (adult 800mg) after 2wk; max 30mg/kg (adult 1800

mg) daily.

Esmolol. 0.5mg/kg (500mcg/kg) IV over 1min, repeat if reqd. Infsn (undiluted 10mg/ml soltn; or 2.5g diluted to 250ml): 0.15-1.8ml/kg/hr (25-300mcg/kg/min); rarely given for >48hr.

Esomeprazole. Base: 0.4-0.8mg/kg (adult 20-40mg) daily oral, IV. H.pylori, see omeprazole. May lower Mg.

Esomeprazole + naproxen. 375mg/20mg, 500/20 tab. Adult, NOT/kg: 1 tab 12H before meal oral.

Estazolam. 0.02-0.1mg/kg (adult 1-4mg) at night oral.

Estradiol. See oestradiol.

Estramustine. 200mg/m² 8H oral (avoid milk).

Estriol. See oestriol, and oestradiol + oestriol.

Estrogens. See oestrogens.

Estrone. See oestrone.

Estropipate. 1mg = 0.83mg piperazine oestrone sulphate. Not/kg: induction puberty 0.19mg daily oral, incr over 2-3yr to 1.5mg (add progestogen for 12 days per cycle); vasomotor symptoms or vaginal atrophy 0.75-6mg daily; hypogonadism 1.5-9mg daily for 21 days of 31-day cycle; osteoporosis 0.75mg daily for 25 days of 31-day cycle.

Eszopiclone. Adult, NOT/kg: 1mg (1-3mg) at night oral.

Etamsylate. 12.5mg/kg (adult 500mg) 6H oral.

Etanercept. 0.4mg/kg (max 25mg) x2/wk, or 0.8mg/kg (max 50mg) wkly SC.

Eteplirsen. 30mg/kg every week IV over 35-60min; trial of 30mg/kg daily in progress.

Ethacrynic acid. IV: 0.5-1mg/kg (adult 25-50mg) 12-24H. Oral: 1-4mg/kg (adult 50-200mg) 12-24H.

Ethambutol hydrochloride. 25mg/kg daily for 8wk oral, then 15 mg/kg daily or 35mg/kg x3/wk. IV: 80% oral dose.

Ethamsylate. 12.5mg/kg (max 500mg) 6H oral, IM, IV.

Ethanol. 10% ethanol 8ml/kg IV over 1hr, then 0.8ml/kg/hr (child) 1.4ml/kg/hr (adult) 2ml/kg/hr (drinker) so blood ethanol 1-1.5mg/ml (22-33mmol/L) until ethylene glycol <0.2g/L (3.2mmol/L) or methanol <0.2g/L (6.2mmol/L).

Ethanol, dehydrated (100%). Vessel sclerosis: inject max of 1ml/kg.

Ethanolamine oleate. 5% soltn, Adult, NOT/kg: 1.5-5ml per varix (max 20ml per treatment).

Ethchlorvynol. 10-20mg/kg (adult 0.5-1g) at night oral.

Ethinylloestradiol. 10-50mcg daily for 21 days per month. See also cyproterone; desogestrel.

Ethinylloestradiol + ethynodiol diacetate. (50mcg/0.5mg or 50/1) x 21 tab, + 7 inert tab. Contraception: 1 tab daily, starting 1st day of menstruation.

Ethinylloestradiol + gestodene. (30/75mcg, 20/75) x 21 tab + 7 inert tab. 1 daily, starting 1st day of menstruation.

Ethinylloestradiol + gestodene. 30/50mcg x6 + 40/70 x5 + 30/100 x10 + inert x7 tab. 1 tab daily, starting 1st day of menstruation.

- Ethinylloestradiol + levonorgestrel.** (30/150mcg, 50/125) x 21 tab, + 7 inert tab. Contraception: 1 tab daily, starting 1st day of menstruation.
- Ethinylloestradiol + levonorgestrel.** 20mcg/0.15mg x42, 25/0.15 x21, 30/0.15 x21, 10/0 x7 tab. Contraception: 1 tab daily starting 1st day of menstruation.
- Ethinylloestradiol + levonorgestrel.** 30/150mcg x 84 tab, then either 7 inert or 7 ethinylloestradiol 10 mcg tab. Contraception: 1 daily, starting 1st day menstruation.
- Ethinylloestradiol + levonorgestrel.** 30/50mcg x6 + 40/75 x5 + 30/125 x10 + inert x7 tab. 1 tab daily, starting 1st day of menstruation.
- Ethinylloestradiol + norelgestromin.** 20/150mcg or 33.9mcg/203mcg or 0.75mg/6mg patches. Contraception: apply 1 patch wkly x3, wk 4 patch-free.
- Ethinylloestradiol + norethisterone.** (35mcg/0.25mg, 30/0.5, 35/0.5, 35/0.75, 20/1, 35/1 or 30/1.5) x 21 tab, + 7 inert tab. Contraception: 1 tab daily, starting 1st day of menstruation.
- Ethinylloestradiol + norethisterone.** 2.5mcg/0.5mg, 5mcg/1mg tab. Post-menopausal (NOT/kg): 1 tab daily oral.
- Ethinylloestradiol + norethisterone.** 20mcg/1mg x 24 tab, + 4 inert tab. Contraception: 1 tab daily, starting 1st day of menstruation.
- Ethinylloestradiol + norethisterone.** 35mcg/0.5mg x7 + 35/0.75 x7 + 35/1 x7+ inert x7 tab. Contraception: 1 tab daily, starting 1st day of menstruation.
- Ethinylloestradiol + norethisterone.** 35mcg/0.5mg x7 + 35/1 x14 + inert x7 tab. Contraception: 1 daily, starting 1st day of menstruation.
- Ethinylloestradiol + norethisterone.** 35mcg/0.5mg x7 + 35/1 x9 + 35/0.5 x5 + inert x7 tab. Contraception: 1 tab daily, starting 1st day of menstruation.
- Ethinylloestradiol 100mcg + levonorgestrel 0.5mg.** Post-coital: first dose within 72hr, repeated after 12hr.
- Ethinylloestradiol 20mcg + levonorgestrel 90mcg.** Contraception: 1 tab daily (with no hormone-free interval).
- Ethionamide.** TB: 15-20mg/kg (max 1g) at night oral. Leprosy: 5-8mg/kg (max 375mg) daily.
- Ethoheptazine.** 3mg/kg (adult 150mg) 6-8H oral.
- Ethosuximide.** 5mg/kg (max 250mg) daily oral, incr by 50% each wk to max 40mg/kg (max 2g) daily. Trough level 0.3-0.7mmol/L.
- Ethotoin.** 5mg/kg (adult 250mg) 6H oral, incr to max 15mg/kg (adult 750mg) 6H.
- Ethyl chloride.** Spray on affected area from a distance of 10-20cm for 3-7sec (bottle) or 4-10sec (aerosol can).
- Ethynodiol.** See ethinylloestradiol + ethynodiol diacetate.
- Etidocaine.** 0.5%-1.5% soltn: max 6mg/kg (0.6ml/kg of 1%) parenteral, or 8mg/kg (0.8ml/kg of 1%) with adrenaline.
- Etidronate.** 5-20mg/kg daily oral (no food for 2hr before and

after dose) for max 6mo. IV: 7.5mg/kg daily for 3-7 days.

Etidronate + calcium citrate. Etidronate 400mg tab daily 14 days, then calcium citrate 500mg daily for 76 days oral.

Etodolac. 4-8mg/kg (adult 200-400mg) 6-8H oral.

Etomidate. 0.3mg/kg slow IV.

Etonogestrel. 68mg sub-dermal implant lasts 3yr.

Etoposide. 50-60mg/m² IV over 1hr daily for 5 days, repeat after 2-4wk. Oral dose 2-3 times IV dose.

Etoricoxib. Adult, NOT/kg: 60-90mg daily oral. Gout: 120 mg daily, max 8 days.

Etravirine (ETR). 4mg/kg (adult 200mg) 12H oral after meal.

Etretinate. 0.25mg/kg 8-12H oral for 2-4wk, then 6H (max 75mg daily) if reqd for 6-8wk, then 12-24H.

Etinodiol diacetate. Contraception: 500mcg daily oral, starting 1st day of menstruation.

Everolimus. Adult, NOT/kg: 10mg (5mg if toxicity) daily oral.

Evolocumab. ≥12yr, NOT/kg: 140mg every 2wk, or 420mg monthly SC.

Exemestane. Adult, NOT/kg: 25mg daily oral.

Exenatide. Adult, NOT/kg: 5mcg SC before morning and evening meals, incr if reqd to 10mcg/dose after 1mo; extended release 2mg SC wkly.

Ezetimibe. Adult, NOT/kg: 10mg daily oral. See atorvastatin.

Ezetimibe + rosuvastatin. 10/5mg, 10/10, 10/20, 10/40. 10/5 mg tab daily oral, adjust 4wkly to 10/20mg (max 10/40) daily.

Ezetimibe + simvastatin. 10/20mg, 10/40 or 10/80 tab. Adult, NOT/kg: 10/20mg tab daily oral, incr strength 4wkly if reqd. See simvastatin for drug interactions.

Factor 2. See factor 9 complex.

Factor 7a, recombinant (rFVIIa). Usually 90mcg/kg IV 2H until haemostasis, then 3-6H. See also factor 9 complex.

Factor 8 concentrate (vial 200-250u), recombinant anti-haemophilic factor (rAHF). Joint 20u/kg, psoas 30u/kg, cerebral 50u/kg. 2 x dose(u/kg) = % normal activity, eg 35u/kg gives peak level of 70% normal. See also Von Willebrand factor / Factor VII concentrate.

Factor 8 inhibitor bypassing fraction. Factors 2,7,8,9,10. IV max 2u/kg/min: joint 50u/kg 12H, mucous mem 50u/kg 6H, soft tissue 100u/kg 12H, cerebral 100u/kg 6-12H.

Factor 9. IV infsn (max 2u/kg/min): minor hge 25u/kg daily, joint 40u/kg 12-24H, surgery 50u/kg stat then 30u/kg 12-24H, major surgery 85u/kg stat then 50u/kg 12-24H. Proph: 25-40u/kg x2/wk (trough >1u/dl). See also factor 9 complex.

Factor 9 complex (Beriplex, Ocatplex). Factors 2, 7, 9, 10, protein C, protein S: approx 25u/ml. 1ml/kg (INR 2-3.9) 1.4ml/kg (INR 4-6) 2 ml/kg (INR >6) + phytomenadione (if reversing warfarin).

Factor 9 complex (Prothrombinex-VF). Factors 2, 9, 10 500u per 20ml vial, antithrombin III 25u/vial, low levels factor 5 and 7. 1ml/kg slow IV daily. Risk of thrombosis in acute

liver failure. Reverse warfarin: 1-2ml/kg + phytomenadione (Vit K1) + FFP 5ml/kg.

Factor 10. See factor 9 complex.

Factor 13. Vial 250u. Prophylaxis: 10u/kg IV every 4wk. Pre-op: up to 3u/kg just before surgery, then 10u/kg daily x5. Severe hge: 10-20u/kg daily.

Famciclovir. Severe infection: 320mg/m² (adult 500mg) 8H oral. Zoster, varicella: 160mg/m² (adult 250mg) 8H oral for 7 days; immunocompromised 320mg/m² (adult 500mg) 8H for 10 days. Genital herpes (adult, NOT/kg): 125mg 12H oral for 5 days (treat), 250mg daily (suppress) 12H; immunocompromised 500mg 12H for 7 days (treat), 500mg daily (suppress).

Famotidine. 0.5-1mg/kg (adult 20-40mg) 12-24H oral. 0.5 mg/kg (max 20mg) 12H slow IV.

Famotidine 26.6mg + ibuprofen 800mg. Adult 1 tab 8H oral.

Fampridine. Adult, NOT/kg: 10mg 12H oral.

Fat emulsion 20%. See lipid emulsion.

Febuxostat. Adult, NOT/kg: 80mg (max 120mg) daily oral.

Felbamate. 5mg/kg 6-8H (max 1200mg/day) oral, incr over 2-3wk to 15mg/kg 6-8H (max 3600mg/day).

Felbinac. 3% gel, foam: apply x2-4/day.

Felodipine. 0.1mg/kg (adult 2.5mg) daily, incr if reqd to 0.5 mg/kg (adult 10mg) daily oral.

Fenbufen. 10mg/kg (adult 450mg) 12H oral.

Fenofibrate, fenofibric acid. Adult, NOT/kg: 135-200mg daily oral (better absorption with micronised caps).

Fenoglide. Adult, NOT/kg: 40-120mg daily oral.

Fenoldopam. 0.1mcg/kg/min IV infsn incr gradually if reqd every 15-30min to max 1.6mcg/kg/min.

Fenoprofen. 4mg/kg (adult 200mg) 6-8H oral, may incr gradually to 12mg/kg/dose (max 800mg).

Fenoterol. Oral: 0.1mg/kg 6H. Resp soltn 1mg/ml: 0.5ml diluted to 2ml 3-6H (mild), 1ml diluted to 2ml 1-2H (moderate), undiluted continuous (severe, in ICU). Aerosol (200mcg/puff): 1-2 puffs 4-8H.

Fentanyl. Not ventltd: 1-2 mcg/kg (adult 50-100mcg) IM or IV; infsn 2-4mcg/kg/hr (<10kg 100mcg/kg in 50ml at 1-2ml/hr; >10kg amp 50mcg/ml at 0.04-0.08ml/kg/hr). Ventilated: 5-10 mcg/kg stat or 50mcg/kg IV over 1hr; infsn 5-10mcg/kg/hr (amp 50mcg/ml at 0.1-0.2ml/kg/hr). Adult, NOT/kg: patch (lasts 72hr) 25mcg/hr, incr if reqd by 25mcg/hr every 3 days; lonsys 40mcg max x6/hr. Transmucosal tabs (adult, NOT/kg): 100mcg between cheek and upper gum until dissolved (15-30 min) 4-8H, incr if reqd to max 800mcg 4H. Buccal film: 200mcg incr to max 1200mcg x4/day. Nasal spray (adult, NOT/kg): 50, 100 or 200mcg doses titrated to response. Epidural: 0.5 mcg/kg stat, or 0.4mcg/kg/hr.

Fenticonazole vaginal pessaries. 600mg nocte once, or 200mg nocte for 3 nights.

Ferric carboxymaltose. 15mg/kg (max 750mg) IV over 15

min, repeated after ≥ 7 days.

Ferric citrate. Adult, NOT/kg: 2g (420mg ferric iron) 8H oral, titrated to serum phosphate 1.1-1.8mmol/L (max 12g/day).

Ferrous salts. Prophylaxis 2mg/kg/day elemental iron oral, treatment 6mg/kg/day elemental iron oral. Fumarate 1mg = 0.33mg iron. Gluconate 1mg = 0.12mg iron; so Fergon (60 mg/ml gluconate) prophylaxis 0.3ml/kg daily, treatment 1ml/kg daily oral. Sulphate (dry) 1mg = 0.3mg iron; so Ferro-Gradumet (350mg dry sulphate) prophylaxis 7mg/kg (adult 350mg) daily, treatment 20mg/kg (adult 1050mg) daily oral.

Ferumoxides. Fe 11.2mg/ml. 0.05ml/kg (Fe 0.56mg/kg) in 2ml/kg (adult 100ml) 5% dextrose IV over 30min.

Ferumoxitol. 510mg in 17ml, total dose (ml) = $0.08 \times \text{Wt in kg} \times (15 - \text{Hb in g/dl})$ IV over 1min; adult 510mg IV stat and in 3-8 days.

Fesoterodine. Adult, NOT/kg: 4-8mg daily oral.

Fexofenadine. NOT/kg: 30mg 12H (6-11yr), 60mg 12H or 180mg daily (>11 yr) oral.

Fibrin glue. See thrombin glue.

Fibrinogen concentrate. 70mg/kg IV; or mg/kg = (target – measured g/L) / 0.017 = (target – measured mg/dL) / 1.7; usual target 1g/L (100mg/dL), severe hge 1.5g/L (150mg/dL).

Fibrinolysin 8-10u/ml + desoxyribonuclease 500-667 u/ml. Ointment or soltn: apply topically 6-24H.

Fidaxomicin. GI activity only: 5mg/kg (adult 200mg) 12H oral.

Filgrastim (granulocyte CSF). Idiopathic or cyclic neutropenia: 5mcg/kg daily SC or IV over 30min. Cong neutropenia: 12mcg/kg daily SC or IV over 1hr. Marrow trans: 20-30mcg/kg daily IV over 4-24hr, reduce if neutrophil $>1 \times 10^9/\text{L}$.

Finasteride. Adult, NOT/kg. Prostatic hyperplasia: 5mg daily oral. Alopecia: 1mg daily oral.

Fingolimod. Adult, NOT/kg: 0.5mg daily oral.

Flavocoxid. Adult, NOT/kg: 250-500mg 12H oral.

Flavoxate. 2-4mg/kg (adult 100-200mg) 6-8H, or single dose at bedtime oral.

Flecainide. 2-3mg/kg (max 100mg) 12H oral, may incr over 2wk to 7mg/kg (max 200mg) 8-12H. IV in 5%D over 30min: 0.5-2mg/kg (max 150mg) 12H.

Flibanserin. Adult, NOT/kg: 100mg daily oral.

Floxuridine (FUDR). 100-300mcg/kg/day by constant intra-arterial infsn (400-600mcg/kg/day in hepatic artery). Stop if WCC $<3500/\text{mm}^3$ or platelets $<100,000/\text{mm}^3$.

Flucloxacillin. Oral: 12.5-25mg/kg (adult 250-500mg) 6H. IM or IV: 25mg/kg (adult 1g) 6H. Severe infsn: 50mg/kg (adult 2g) IV 12H (1st wk life), 8H (2-4 wk), 6H or constant infsn (>4 wk). Surgery: 50mg/kg at inductn. See also ampicillin + flucl.

Fluconazole. 12mg/kg (adult 200-400mg) daily IV, higher doses if very severe infection; if haemofiltered 12mg/kg (adult 600mg) 12H; neonate 12mg/kg 72H (<14 days) 48H (15-28 days). Superficial infsn: 6mg/kg (adult 200mg) stat,

then 3mg/kg (adult 100mg) daily oral or IV.

Flucytosine (5-fluorocytosine). 400-1200mg/m² (max 2g) 6H IV over 30 min, or oral. Peak level 50-100mcg/ml, trough 25-50mcg/ml (x7.75=umol/L).

Fludarabine. 25mg/m² daily x5 IV over 30min, every 28 days.

Fludrocortisone acetate. 150mcg/m² daily oral. Fludrocortisone 1mg = hydrocortisone 125mg in mineralocorticoid activity, 10mg in glucocorticoid.

Flumazenil. 5mcg/kg every 60sec IV until awake (max total 50 mcg/kg, adult 2mg); then 2-10mcg/kg/hr if overdose.

Flumetasone. See clioquinol + flumetasone.

Flunarizine. Adult, NOT/kg: 10mg daily oral, reducing to 5 days/wk with two successive days off.

Flunisolide. Asthma (250mcg/puff): 1-2 puffs 12H. Nasal (25mcg/puff): 1-2 puffs/nostril 8-24H.

Flunitrazepam. Adult, NOT/kg: 0.5-2mg at night, oral.

Fluocinolone. See fluocinonide.

Fluocinonide. 0.025%, 0.05% cream or oint: apply 6-12H.

Fluocortolone. 0.25% cream, ointment: apply 8-12H.

Fluorescein. 1%, 2% drops: 1 drop/eye. 10% (100 mg/ml), 25% (250mg/ml): 8mg/kg (max 500mg) IV.

Fluorescein 0.25% + oxybuprocaine 0.4%. 1 drop/eye.

Fluoride. 0.25mg (<3yr) 0.5mg (3-6yr) 1mg (>6yr) daily oral. See also sodium fluoride.

5-Fluorocytosine. See flucytosine.

9-alpha-fluorohydrocortisone. See fludrocortisone.

Fluorometholone. 0.1% soltn: 1 drop/eye 6-12H.

Fluorouracil. 15mg/kg (max 1g) IV over 4hr daily until side effects, then 5-10mg/kg wkly. See also adrenaline + fluorouracil; and folic acid.

Fluothane. Induction 0.5-4%, then 0.5-1.5% inhalation.

Fluoxetine. 0.5mg/kg (max 20mg) daily, incr to max 1mg/kg (max 40mg) 12H oral. Weekly 90mg cap: 1 per wk.

Fluoxetine + olanzapine. 25mg/6mg, 25/12, 50/6 or 50/12 tab. Adult, NOT/kg: 1cap daily oral.

Fluoxymesterone. 0.1-0.2mg/kg (adult 5-10mg) daily oral.

Flupenthixol. Oral: 0.05-0.2mg/kg (adult 3-9mg) 12H. Depot IM: usually 0.4-0.8mg/kg (up to 5mg/kg, max 300 mg) every 2-4wk (1mg flupenthixol deconate = 0.625mg fluphenazine decanoate = 1.25mg haloperidol).

Flupentixol. See flupenthixol.

Fluphenazine. 0.02-0.2mg/kg (adult 1-10mg) 8-12H oral.

Flurandrenolide. See flurandrenolone.

Flurandrenolone. 0.025%, 0.05% cream, ointment or lotion: apply 6-24H. 4mcg/m² tape: apply 12H.

Flurazepam. Adult, NOT/kg: 15-30mg at night, oral.

Flurbiprofen. 1-2mg/kg (adult 50-100mg) 8H oral or PR. 0.03% drops: 1 drop/eye every 30min x4 doses.

Flutamide. Adult, NOT/kg: 250mg 8H oral.

Fluticasone furoate. NOT/kg: inhale 100mcg daily, incr to

200mg daily after 2wk if reqd.

Fluticasone furoate + vilanterol. NOT/kg 100/25mcg inhaled daily.

Fluticasone propionate. NOT/kg. 50-100mcg (child), 100-500 mcg (adult) 12H inhaled. 0.05% soltn: 1-4 sprays/nostril daily. 0.05% cream: daily. See also azelastine, eformoterol.

Fluticasone propionate + formoterol. 50/5mcg, 125/5, 250/10 MDI. ≥ 12 yr (NOT/kg): 1-2 puffs 12H inhaled.

Fluticasone propionate + salmeterol. NOT/kg. Accuhaler: 100/50mcg (child), 250/50 or 500/50 (adult) x1-2 inhln 12H. MDI: 50/25 (child), 125/25 or 250/25 (adult) 1-2 inhln 12H.

Fluvastatin. 0.4mg/kg (adult 20mg) nocte oral, incr to 0.8 mg/kg (adult 40mg) 12H if reqd. Slow relse: 80mg nocte.

Fluvoxamine. 0.5mg/kg (max 25mg) daily oral, incr slowly if reqd to max 2mg/kg (adult 100mg) 8-24H. Slow-release (adult, NOT/kg): 100-300mg at night oral.

Folic acid. NOT/kg. Deficiency: 50mcg (neonate), 0.1-0.25mg (<4yr), 0.5-1mg (>4yr) daily IV, IM, SC or oral. Metabolic dis: 5mg/day. Pregnancy: 0.5mg (high risk 4mg) daily oral. With methotrexate (NOT/kg): 5mg wkly on different day to MTX.

Folate or folinic acid. See calcium folinate.

Follicle stimufating hormone (FSH). Adult, NOT/kg, monitor urinary oestrogen. Anovulation: usually 50-150iu SC daily for 9-12 days. Superovulation (2wk after starting GnRH agonist): 100-225iu/kg daily starting day 3 of cycle.

Follitropin alpha, beta. See follicle stimulating hormone.

Follitropin alfa 150iu + lutropin alfa 75iu. 1 vial daily SC.

Fomepizole. 15mg/kg load, then 10mg/kg 12H for 48hr, then 15mg/kg 12H IV until ethylene glycol <0.2g/L (3.2mmol/L) or methanol <0.2g/L (6.2mmol/L).

Fomivirsen. Intravitreal injection, Adult, NOT/kg. New disease: 165mcg/eye wkly x3, then every 2wk. Previously treated: 330mcg/eye stat, in 2wk, then every 4wk.

Fondaparin. Adult, NOT/kg: 2.5mg SC 6hr postop, then daily for 5-9 days; HIT 7.5mg daily SC.

Fondaparinux. See fondaparin.

Formestane. Adult, NOT/kg: 250mg 2wkly deep IM.

Formoterol. >4yr (NOT/kg). Powder: 12mcg inhalation 12H. Solutn: 20mcg in 2ml nebulised 12H. See also budesonide.

Formoterol + glycopyrrolate. 4.8/9mcg MDI. 2 puffs 12H.

Formoterol + mometasone. 5/100mcg, 5/200. MDI 2 puffs 12H.

Fosamprenavir (FPV). ≥ 2 yr: 30mg/kg (max 1400mg) 12H oral. Amprenavir trough ≥ 400 ng/ml. See also efavirenz.

Fosamprenavir + ritonavir. ≥ 6 yr: FPV 18mg/kg (max 700 mg) + RTV 3mg/kg (max 100mg) 12H oral. If >18yr can use FPV 1400mg + RTV 200mg (naïve) 100mg (past Rx) daily.

Fosaprepitant. Adult, NOT/kg: 125mg oral or IV over 15min on day 1, then 80mg on day 2 and day 3.

Foscarnet. 20mg/kg IV over 30min, then 200mg/kg/day by constant IV infsn (less if creatinine >0.11mmol/L) or 60

mg/kg 8H IV over 2hr. Chronic use: 90-120mg/kg IV over 2hr daily.

Fosfestrol. Adult, NOT/kg. Initial: 0.5g IV over 1hr day 1, then 1g x5 days. Maintenance: 120-240mg 8H oral, later reducing to 120-240mg daily.

Fosfomycin. 5.63g (3g base) sachet mixed with water oral.

Fosinopril. 0.2-0.8mg/kg (adult 10-40mg) daily oral.

Fosphenytoin. 75mg = 50mg phenytoin (qv). Prescribed and dispensed as phenytoin equivalents.

Fospropofol. Usually 6.5mg/kg IV, then 1.6mg/kg no more frequently than every 4min (0.3-0.4mg/kg/min).

Fotemustine. IV over 1hr, or IA over 4hr: 100mg/m² weekly x3, rest 4-5wk, then every 3wk.

Framycetin sulfate (Soframycin). Subconjunctival: 500mg in 1ml water daily x3 days. Bladder: 500mg in 50ml saline 8H x10 days. 0.5%: eye 1drop 8H, ear 3drops 8H, ointment 8H.

Framycetin sulfate 15mg/g + gramicidin 0.05mg/g. Cream, oint (Soframycin topical): apply 8-12H. See dexamethasone.

Frangula 8% + sterculia 62%. NOT/kg: 1-2 sachets (or 1-2 5ml spoonfuls) 12-24H oral.

Fresh frozen plasma. Contains all clotting factors. 10-20 ml/kg IV. A bag is about 230ml.

Frovatriptan. Adult, NOT/kg: 2.5mg oral (max 7.5mg/day).

Frusemide. Usually 0.5-1mg/kg (adult 20-40mg) 6-24H (daily if preterm) oral, IM, or IV over 20min (**max 0.05mg/kg/min IV**). IV infsn: 0.1-1mg/kg/hr (<20kg 25 mg/kg in 50ml 0.9% saline with heparin 1u/ml at 0.2-2 ml/hr; >20kg amp 10mg/ml at 0.01-0.1ml/kg/hr); protect from light.

Fuller's earth. 2g/kg (adult 150g) 15% in water.

Fulvestrant. Adult, NOT/kg: 250mg IM once a month.

Furazolidone. 2mg/kg (adult 100mg) 6H oral 7-10day.

Furosemide. See frusemide.

Fusafungine. 125mcg spray: oral 1spray/10kg (adult 5 sprays) x5/day, nasal 1spray/20kg (adult 3sprays) x5/day.

Fusidate, sodium. See sodium fusidate.

Fusidic acid. Fusidic acid (susp) absorption only 70% that of sodium fusidate (tabs). Suspension: 15-20mg/kg (adult 750mg) 8H oral. Eye %: 1drop/eye 12H. For tablets and IV, see sodium fusidate.

Gabapentin. Anticonvulsant: 10mg/kg (adult 300mg) once day 1 oral, 12H day 2, 8H day 3; then adjusted to 10-20 mg/kg 8H (max 2.4g/day). Premed: 25mg/kg (adult 1200mg) 1hr preop. Analgesia: 2mg/kg (adult 100mg) 8H, incr if reqd to 15mg/kg (adult 800mg) or higher 8H if tolerated. Adult, NOT/kg with evening meal oral: restless legs 600mg daily, postherp neur 300mg incr over 4wk to 1800mg daily.

Gadobutrol. 0.1mmol/kg IV.

Gadopentetic acid. Adult, NOT/kg. 2mmol/L inj: finger 1-2ml, wrist 4ml, ankle-elbow-hip-shoulder 10-20ml, knee 25-50ml.

Gadoteridol. 0.1 (max 0.3) mmol/kg IV.

Gadoxetic acid. 0.25mmol (181.43mg) per ml: 0.1ml/kg IV.

Galantamine. Adult, NOT/kg: 4mg 12H for 4wk, then 8mg 12H, incr after 4wk if reqd to 12mg 12H oral.

Gallamine. 1-2mg/kg (adult 50-100mg) IV.

Gallium nitrate. 100-200mg/m²/day x5days constant IV infsn.

Galsulfase. 1mg/kg (to nearest 5mg) weekly IV over 4-20hr.

Gamma benzene hexachloride. See lindane.

Gamma globulin. See immunoglobulin.

Gamma hydroxybutyrate See sodium oxybate.

Gamolenic acid. 2-5mg/kg (adult 120-240mg) 12H oral.

Ganciclovir. 5mg/kg 12H IV over 1hr for 2-3wk; then 5mg/kg IV daily, or 6mg/kg IV on 6 days/wk, or 20 mg/kg (adult 1g) 8H oral. Congenital CMV: 7.5mg/kg 12H IV over 2hr.

Ganirelix. Adult, NOT/kg: 0.25mg daily SC from day 6 of FSH to day of ovulation induction.

Gas gangrene (Clostridia) antitoxin. Prophylaxis: 25,000u IM or IV. Treatment: 75,000-150,000u IV over 1hr, repeat x1-2 after 8-12hr; if severe also give 100,000u IM.

Gatifloxacin. 8mg/kg (adult 400mg) daily IV over 1hr.
Gonorrh: 8mg/kg (adult 400mg) once. 0.3% ophthalmic: 1 drop/eye 2H when awake days 1-2, then x4/day days 3-7.

Gaviscon. See alginic acid.

Gefitinib. Adult, NOT/kg: 250mg daily oral.

Gelatin, succinylated. 10-20ml/kg (may repeat). T½ 4hr.

Gemcitabine. 1g/m² IV over 30min wkly for 3wk, rest for 1wk, then repeat 4wk cycle.

Gemeprost (PGE1 analogue). Cervical dilatation: 1 pessary (1mg) into posterior vagina 3hr before surgery. Termination: 1 pessary (1mg) into posterior vagina 3H (max 5 pessaries).

Gemfibrozil. 10mg/kg (max 600mg) 12H oral.

Gemifloxacin. Adult, NOT/kg: 320mg daily oral.

Gemtuzumab ozogamicin. 9mg/m² IV over 2hr, repeated after 14 days.

Gentamicin. IV or IM. 1wk-10yr: 8mg/kg day 1, then 6 mg/kg daily. >10yr: 7mg/kg day 1, then 5mg/kg (max 240-360mg) daily. Neonate, 5mg/kg dose: <1200g 48H (0-7 days of life), 36H (8-30 days), 24H (>30 days); 1200-2500g 36H (0-7 days of life), 24H (>7 days); term 24H (0-7 days of life), then as for 1wk-10yr. Trough level <1.0mg/L.

Gentamicin, eye drops. 0.3% 1drop/eye every 15min if severe, reducing to 1drop 4-6H.

Gestodene. See ethinyloestradiol + gestodene.

Gestrinone. Adult, NOT/kg: 2.5mg x2/wk on day 1 and 4 of menstrual cycle, then on same days each wk.

Gestronol. Adult, NOT/kg: 200-400mg every 5-7 days IM.

Getfitinib. Adult, NOT/kg: 250mg daily oral.

Gimeracil. See tegafur.

Ginkgo biloba. Adult, NOT/kg: 1200mg 12H oral.

Glatiramer. Adult, NOT/kg: 20mg daily SC.

Glibenclamide. Adult, NOT/kg: initially 2.5mg daily oral, max

20mg daily.

Glibenclamide + metformin. Adult, NOT/kg: 1.25/250mg 12-24H oral, incr if reqd to 2.5/500 or 5/500 (max 10/1000) 12H.

Gliclazide. Adult, NOT/kg: initially 40mg daily oral, max 160mg 12H.

Glimepiride. Adult, NOT/kg: 2-4mg (max 6mg) daily oral.

Glimepiride + pioglitazone. 2/30mg or 4/30 tab. Adult, NOT/kg: 1 tab daily oral.

Glimepiride + rosiglitazone. 1/4mg, 2/4 or 4/4 tab. Adult, NOT/kg: 1-2 tab daily (max 4mg/8mg) oral.

Glipizide. Adult, NOT/kg: 5mg daily oral, max 20mg 12H.

Gliquidone. 0.25-1mg/kg (adult 15-60mg) 8-12H oral.

Globulin. See immunoglobulin.

Glucagon. 1u=1mg. 0.04mg/kg (adult 1-2mg) IV or IM stat, then 10-50mcg/kg/hr (0.5mg/kg in 50ml at 1-5ml/hr) IV. Beta-blocker overdose: 0.1mg/kg IV stat, then 0.3-2mcg/kg/min.

Glucarpidase. 50u/kg IV over 5min.

Glucosamine. Adult, NOT/kg: 1500mg daily oral.

Glucose. See dextrose.

Glucose electrolyte solution. Not dehydrated: 1 heaped teaspoon sucrose in large cup of water (4% sucrose = 2% glucose); do NOT add salt. Dehydrated: 1 sachet of Gastrolyte in 200ml water; give frequent sips, or infuse by NG tube.

Glutamic acid. 10-20mg/kg (adult 0.5-1g) oral with meals.

Glutaraldehyde. 10% soltn: apply to wart 12H.

Glyburide. See glibenclamide.

Glycerin. See sorbolene + glycerin cream.

Glycerol. Suppos: 0.7-1g infant, 1.4-2g child, 2.8-4g adult.

Glycerol phenylbutyrate. 1.7-4.1g/m² (1.5-3.7ml/m² of 1.1g/ml) 8H with meal, oral. 1g=1.28g sod phenylbutyrate.

Glyceryl trinitrate. Adult, NOT/kg: sublingual tab 0.3-0.9 mg/dose (lasts 30-60min); sublingual aerosol 0.4-1.2 mg/dose; slow-release buccal tab 1-10mg 8-12H; transdermal 0.5-5cm of 2% ointment, or 5-15mg patch 8-12H; anal fissure 2.5cm 0.4% oint 12H. IV infsn 0.5-5mcg/kg/min (<30kg 3mg/kg in 50ml at 0.5-5ml/hr; >30kg 3mg/kg in 100ml at 1-10ml/hr); use special non-PVC tubing. T½ 1-4min.

Glycopyrrolate. Reduce secretions, treat bradycardia: 5-10 mcg/kg (adult 0.2-0.4mg) 6-8H IV, IM. With 0.05mg/kg neostigmine: 10-15mcg/kg IV. Anticholinergic: 0.02-0.04mg/kg (max 2mg) 8H oral. Inhaled (adult, NOT/kg): 50mcg or 15.6mcg cap daily. See formoterol.

Glycopyrrolate + indacaterol. 15.6/27.5 mcg inhale 1 cap 12H. 50/110mcg inhale 1 cap daily.

Glycopyrronium. See glycopyrrolate.

GM-CSF. See sargramostim.

Gold. See auranofin, aurothioglucose, aurothiomalate.

Golimumab. Adult, NOT/kg: 200mg SC, 100mg after 2wk, then 100mg every 4wk..

Gonadorelin (GnRH or LHRH). Pituitary function test, child or

adult: 100mcg IV. See also leuporelin.

Gonadotrophin. See chorionic gonadtrn, and menotrophin.

Goserelin. Adult, NOT/kg: 3.6mg SC every 28 days; implant 10.8mg SC every 12wk. See also bicalutamide.

Gramicidin 0.025% + neomycin 0.25% + nystatin 100,000 u/g + triamcinolone 0.1%. Kenacomb ointment: apply 8-12H. Kenacomb otic oint, drops: apply 8-12H (2-3 drops).

Gramicidin 25mcg/ml + neomycin 2.5mg/ml + polymyxin B 5000u/ml (Neosporin). Eye drops: 1 drop/eye every 15-30 min, reducing to 6-12H. See also dexamethasone.

Granisetron. 0.02-0.04mg/kg (adult 1mg) daily oral, IV over 5min. Chemotherapy: 0.04mg/kg (adult max 1-3mg) IV over 5min; up to 3 doses/day, at least 10min apart; adult 1 patch daily for up to 7 days starting 1-2 days before chemo.

Granulocyte-macrophage colony stimulating factor (GM-CSF). See lenograstim, sargramostim.

Grass allergen extract. Sublingual, NOT/kg. Oralair $\geq$ 5yr: 100 IR day1, 200 IR day2, then 300 IR daily sublingual. Timothy grass: 2800 BAU daily. Ragweed: 1 tab daily.

Grazoprevir. See elbasvir.

Grepafloxacin. 8-12mg/kg (adult 400-600mg) daily oral.

Griseofulvin (Grisovin, Fulcin). 10-20mg/kg (adult 0.5-1g) daily oral.

Griseofulvin, ultramicrosize (Griseostatin). 5.5-7mg/kg (adult 330-660mg) daily oral.

Growth hormone. See somatropin.

Guaicol. See codeine + guaicol.

Guaifenesin. See guaiphenesin.

Guaiphenesin. 4-8mg/kg (adult 200-400mg) 4H oral.

Guanabenz. 0.1mg/kg (max 4mg) 12H oral, incr to max 0.6 mg/kg (max 32mg) 12H.

Guanadrel. 0.1mg/kg (max 5mg) 12H oral, incr to max 0.5 mg/kg (max 25mg) 8-12H.

Guanethidine. 0.2mg/kg (max 10mg) daily oral, incr to 0.5-6 mg/kg (max 300mg) daily. Regnl symp block (adult): cuff 55 mmHg >syst BP, 10-20mg in 10-25ml saline (arm) or 15-30 mg in 15-50ml (leg) IV, wait 10-20min, release cuff over 5 min; $\geq$ 7 days between injctns (max 12/yr).

Guanfacine. 0.02mg/kg (max 1mg) daily oral, incr over several wks to 0.05-0.08mg/kg (max 4mg) daily, sometimes up to 0.12mg/kg (max 4mg) daily.

Guar gum. 1g/10kg (adult 5g) 8H oral in fluid 40ml/g gum.

Haem arginate. 3-4mg/kg daily IV over 30-60min.

Haemaccel. See polygeline.

Haemophilus influenzae type b, vaccines. Inanimate.
 <12mo: give diphtheria protein conjugate (HibTITER, ProHIBiT), or tetanus conjugate (Act-HIB, Hiberix) 0.5ml IM at 2mo, 4mo, 6mo and 15mo; or meningococcal conjugate (Pedsvax HIB) 0.5ml IM at 2mo, 4mo and 15mo. If 1st dose >18mo: give 1 dose of HibTITER or Pedsvax HIB.

Haemophilus influenzae type b + hepatitis B vaccine (Comvax). Inanimate. 0.5ml IM 2mo, 4mo, 12-15mo x3 dose.

Haemophilus influenzae type b + meningococcus type c vaccine (Menitorix). Inanimate. 0.5ml IM 2mo, 3mo, 4mo (3 doses); boost from 12mo.

Halcinonide. 0.1% cream: apply sparingly 8-12H.

Halobetasol. 0.05% cream, ointment: apply 12-24H.

Halofantrine. 10mg/kg (max 500mg) 6H for 3 doses oral, repeat after 1wk if nonimmune.

Haloperidol. 0.02mg/kg (max 1mg) daily, incr up to 0.1mg/kg (max 5mg) 12H IV or oral; up to 0.2mg/kg (max 10mg) 12H used rarely. Acutely disturbed: 0.1-0.2mg/kg (adult 5-10mg) IM. Long-acting decanoate ester: 1-6mg/kg IM every 4wk.

Halothane. 0.5-4% induction, then 0.5-2% inhalation.

Hemin. 1-3mg/kg 12-24H IV over 30min.

Heparin. 1mg=100u. Low dose: 75u/kg IV stat, then 500u/kg in 50ml 0.9% saline at 1-1.5ml/hr (10-15u/kg/hr) IV. Full dose: 75u/kg (adult 5000u) IV stat, then 500u/kg in 50ml saline at 2-4ml/hr (20-40u/kg/hr) <12mo, 2-3ml/hr (20-30 u/kg/hr) child, 1.5-2ml/hr (15-20u/kg/hr) adult; adjust to give APTT 60-85 sec, or anti-Xa 0.3-0.7u/ml. Hep lock: 100u/ml.

Heparin calcium. Low dose: 75u/kg SC 12H.

Heparin, low molecular weight. See certoparin, dalteparin, danaparoid, enoxaparin, nadroparin.

Heparinoid 0.2% + lauromacrogol 5%. Oint: apply x1-4/day.

Hepatitis A vaccine (Havrix). Inanimate. 0.5ml (child) or 1ml (adult) IM stat, and in 6-12mo (2doses). Boost every 5yr.

Hepatitis A vaccine (VAQTA). Inanimate. 0.5ml (child) or 1ml (>17yr) IM stat, and after 6-18mo (2 doses).

Hepatitis A + hepatitis B vaccine (Twinrix). Inanimate. 1-15yr 0.5ml, >15yr 1ml IM stat, after 1mo, and after 6mo (3 doses). Boost every 5yr.

Hepatitis B immune globulin. See immunoglobulin, hep B.

Hepatitis B vaccine (Engerix-B, HB Vax II). Inanimate. Engerix-B 10mcg/dose (<10yr), 20mcg (>9yr); HB Vax II 2.5mcg/dose (<10yr), 5mcg (10-19yr), 10mcg (>19yr), 40mcg (dialysis) IM stat, after 1mo, and after 6mo (3 doses). Boost every 5yr. See diphtheria and haemophilus vaccines.

Herpes zoster vaccine (Zostavax). Live. Age 50yr or more: 0.65ml SC once. See also Immunoglobulin, zoster.

Hetastarch. 6% 10-20ml/kg IV.

Hexachlorophane. 3% emuls. >12mo: apply 5ml, scrub 3min.

Hexamethylmelamine. 150-260mg/m² daily oral for 14-21 consecutive days of a 28 day cycle.

Hexamidine. See chlorhexidine.

Hexamine hippurate. 20mg/kg (adult 1g) 6H oral.

Hexaminolevulinate. Adult, NOT/kg: instill 100mg in 50ml.

Hexetidine. 0.1% soln: rinse/gargle 15ml (NOT/kg) 8-12H.

Histamine phosphate. 1mg/ml base: prick, puncture or scratch testing. 0.1mg/ml base: intradermal testing.

Histrelin. Usually 10mcg/kg daily SC.

Homatropine. 2%, 5% soltn: 1 drop/eye 4H.

Hormone replacement therapy. With uterus: sequential combined oestrogen (eg.oestradiol) and progestogen (eg. norethisterone) if perimenopausal; continuous combined therapy if postmenopausal. Without uterus: oestrogen.

Human chorionic gonadotrophin. Chorionic gonadotrophin.

Human menopausal gonadotrophin. See menotrophin.

Human papillomavirus vaccine (Cervarix 2-valent, Gardasil 4- and 9-valent). Inanimate. Females 9-26yr, males 9-15yr: 0.5ml IM 0mo, 1-2mo, 6mo (3 doses).

Hyaluronic acid. Gel 20mg/ml: 0.7-1.4ml injectd in wrinkles.

Hyaluronidase. Hypodermoclysis: add 1-1.5u/ml fluid. Local anaesthesia: add 50u/ml soltn.

Hydralazine. 0.1-0.2mg/kg (adult 5-10mg) stat IV or IM, then 4-6mcg/kg/min (adult 200-300mcg/min) IV. Oral: 0.4 mg/kg (adult 20mg) 12H, slow incr to 1.5mg/kg (max 50mg) 6-8H.

Hydrochloric acid. Use soltn of 100mmol/L (0.1M = 0.1N = 100mEq/L); give IV by central line only. Alkalosis: dose (ml) = BE x Wt x 3 (give half this); max rate 2ml/kg/hr. Blocked central line: 1.5ml/lumen over 2-4hr.

Hydrochlorothiazide. 1-1.5mg/kg (adult 25-50mg) 12-24H.

Hydrochlorothiazide + quinapril. 10mg/12.5mg or 20/12.5 tab. Adult, NOT/kg: 10/12.5 tab daily oral, incr if reqd to 20/12.5 tab, max two 10/12.5 tab daily.

Hydrochlorothiazide + telmisartan. 12.5/40mg, 12.5/80 or 25/80 tab. Adult, NOT/kg: 1 tab daily oral.

Hydrochlorothiazide + valsartan. 12.5/80mg, 12.5/160 or 25/160 tab. Adult, NOT/kg: 1 tab daily oral.

Hydrocodone. 0.1-0.2mg/kg (max 10-15mg) 4-6H oral. Adult, NOT/kg: slow-rel 10mg 12H oral, incr every 3-7 days, extended-rel 20mg daily oral, incr every 3-7 days.

Hydrocortisone. Inflammation, immunosupp, acute adr insuff: 2-4mg/kg (max 100mg) 6H IV, reducing as tolerated. Physiological, stress: 1mg/kg 6H IV, IM. Chronic replacement, oral: adrenal insuff 3-4mg/m² (max 10mg) 8H; congen adr hypopl 6-8mg/m² 8H (infant), >12mo 3-6mg/m² (max 10mg) 8H. 0.5%, 1% cream, ointment: apply 6-12H. 10% rectal foam: 125mg/dose. 2.5% eye ointment: apply 6H. See clioquinol.

Hydrocortisone 1% + pramocaine 1%. Cream, foam: apply 8-12H after defaecation.

Hydroflumethiazide. 0.5-2mg/kg (adult 25-100mg) 12-48H.

Hydrogen peroxide. 10 volume (3%). Mouthwash 1:2 parts water. Skin or ear disinfectant 1:1 part water.

Hydromorphone. Oral: 0.05-0.1mg/kg (adult 2-4mg) 4H. IM, SC: 0.02-0.05mg/kg (adult 1-2mg) 4-6H. Slow IV: 0.01-0.02 mg/kg (adult 0.5-1mg) 4-6H. Palliative: incr to 40-50mg/day (up to 500mg/day) oral divided doses. 1mg = 4mg oxycodone.

Hydroquinone. 3-4% cream: apply 12H.

Hydrotalcite. 20mg/kg (adult 1g) 6H oral.

Hydroxocobalamin (Vit B12). 20mcg/kg (adult 1000mcg) IM daily for 7 days then wkly (treatment), then every 2-3mo (prophyl); IV dangerous in megaloblastic anaemia. Homocystinuria, methylmalonic acidur: 1mg daily IM; after response, some patients maintained on 1-10mg daily oral.

Hydroxyapatite. 20-40mg/kg (adult 1-2g) 8H oral.

Hydroxycarbamide. See hydroxyurea.

Hydroxychloroquine sulphate. Doses as sulphate (200mg = 155mg base). Malaria: 10mg/kg (max 600mg) daily for 3 days; prophylaxis 5mg/kg (max 300mg) once a wk oral. Arthritis, SLE: 3-6.5mg/kg (adult 200-600mg) daily oral.

Hydroxyethylcellulose. 0.44% 1 drop per eye 6-8H.

Hydroxyethylrutosides. 5mg/kg (adult 250mg) 6-8H for 3-4wk, then 12-24H; or 10mg/kg (adult 500mg) 12H for 3-4wk, then daily oral.

Hydroxyprogesterone. Adult, NOT/kg: 250-500mg/wk IM.

Hydroxypropyl (methyl)cellulose. See hypromellose.

Hydroxyquinone. 4% cream: apply 12H.

Hydroxyurea. 80mg/kg oral every 3rd day, or 20-30mg/kg daily. CNS tumors: 1.5-3g/m² oral stat, in 2wk, then every 4-6wk. Sick cell: 15mg/kg daily, incr by 5mg/kg every 12wk to max 35mg/kg daily.

Hydroxyzine. 0.5-2mg/kg (adult 25-100mg) 6-8H oral. 0.5-1 mg/kg (adult 25-100mg) 4-6H if reqd IM.

Hylan. 8mg inj into knee wkly x3; max 6 doses in 6mo.

Hyoscine (scopolamine) butylbromide. 0.5 mg/kg (adult 20-40mg) 6-8H IV, IM or oral.

Hyoscine (scopolamine) hydrobromide. 6-8mcg/kg (adult 400-600mcg) 6-8H IV, IM, SC. Motion sickness 300mcg tab (NOT/kg): ¼ tab (2-7yr), ½ tab (7-12yr), 1-2 tab (>12yr) 6-24H oral 30 min before, may repeat in 4hr. Transdermal (1.5mg patch): >10yr 1 every 72hr.

Hyoscine hydrobromide 0.4mg/ml + papaveretum 20mg /ml. 0.008 mg/kg (H) + 0.4 mg/kg (P) = 0.02ml/kg/dose IM.

Hyoscine methobromide (methscopolamine). 0.2mg/kg (adult 2.5-5mg) 6H oral.

Hyoscyamine (L-atropine). 2-5mcg/kg (adult 100-300 mcg) 4-6H oral, sublingual, IM or IV.

Hypromellose. 0.5% soltn: 1 drop/eye prn.

Hypromellose 0.3% + dextran 70 0.1%. 1 drop/eye prn.

Ibandronate (ibandronic acid). Adult, NOT/kg. Hypercalcaemia: 2-4mg IV over 2hr once. Osteoporosis: 2.5mg daily, or 150mg each month oral; or 3mg IV bolus every 3mo.

Ibopamine. 1.5-3mg/kg 8H oral.

Ibritumomab. Adult, NOT/kg. Dosimetric dose (after rituximab): 5.5 mCi of In-111 labelled ibritumomab IV over 10min. Therapeutic dose of Y-90 ibritumomab based on response to dosimetric dose and platelet count.

Ibrutinib. Adult, NOT/kg, oral. 420mg (CLL) 560mg (MCL) daily.

Ibuprofen. 10mg/kg (adult 200-400mg) 4-8H oral, IV; max

40mg/kg (adult 3.2g) per day. Arthritis: 10mg/kg (adult 400-800mg) 6-8H (max 2.4g/day). Cystic fibrosis: 20-30mg/kg 12H. PDA: 10mg/kg stat, then 5mg/kg after 24 and 48 hr IV over 15min. See also famotidine + ibuprofen.

lbutilide. 0.017mg/kg (max 1mg) IV over 10min, then wait 10min and repeat once if reqd.

lcatibant. 15u/kg (to nearest 500u) SC, repeat 6H x2 if reqd.

lcatibant. Adult, NOT/kg: 30mg SC.

lchthammol. 1-10% cream, ointment. Apply 6-8H.

lcodextrin 7.5% in electrolyte soltn. Adults: 1.5-2.5 litres as once daily replacemnt for a 6-12hr glucose dialysis.

licosapent ethyl. Adult, NOT/kg: 1-2g 12H oral with food.

ldarubicin. 12mg/m² IV over 15min daily for 3 days.

ldarucizumab. Adult, NOT/kg: 5g IV.

ldebenone. Adult, NOT/kg: 30mg 8H oral.

ldelalisib. Adult, NOT/kg: 150mg tab 12H oral.

ldinavir. 500mg/m² (adult 800mg) 8H oral, min trough 100ng/ml.

ldoxuridine. 0.1% eye drops: 1 drop every 15min for 2hr, then hourly by day and 2H at night. 0.1% soltn or 0.5% ointment: apply hourly first 24hr, then 4H.

ldursulfase. 0.5mg/kg weekly IV over 1-3hr.

lfosfamide. Usually 1.2-2.0g/m² IV over 4hr daily x5, or 5-6 g/m² (max 10g) IV over 24hr once. Repeat every 2-4wk.

lloperidone. Adult, NOT/kg: 1mg 12H, incr to 6-12mg 12H oral.

lloprost. IV: 0.2ng/kg/min incr every 4-6hr to 2ng/kg/min (up to 10ng/kg/min rarely). Inhaltn (NOT/kg): 2.5-5mcg x6-9/day.

lmatinib. Adult, NOT/kg: 400mg daily (chronic CML), 600mg daily (blast crisis) or 400mg 12H (unresponsive blast) oral.

lmidapril. 0.1mg/kg (adult 5mg) daily oral, incr if reqd to 0.2-0.3mg/kg (adult 10-20mg) daily.

lmiglycerase. Usual initial dose 60u/kg every 2wk IV over 2hr, adjusted according to response; reduce every 3-6mo.

lmipenem (+ cilastatin). 15mg/kg (adult 500mg) 6H IV over 30min. Severe infn: 25mg/kg IV over 1hr (adult 1g) 12H (1st wk life), 8H (2-4 wk), 6-8H or constant infsn (4+ wk).

lmipramine. 0.5-1.5mg/kg (adult 25-75mg) 8H oral. Enuresis: 5-6yr 25mg, 7-10yr 50mg, >10yr 50-75mg nocte.

lmiquimod. 5% cream: apply x2-3/wk (max 16wk) before bed; wash off after 6-10hr. Molluscum: 0.2% cream x3/wk.

Immunoglobulin. See also antivenoms.

Immunoglobulin, anthrax. 60u/50ml vials: <10kg x1, 10-17 kg x2, 18-24kg x3, 25-34kg x4, 35-49kg x5, 50-59kg x6, ≥60kg x7 IV at 0.01ml/kg/min (max 0.5 ml/min) for 30min, 0.02ml/kg/min (max 1ml/min) 30 min, then 0.04ml/kg/min (max 2ml/min). Severe: double dose if >5kg.

Immunoglobulin, antilymphocyte (thymocyte). Horse (Atgam): 10-15mg/kg daily for 3-5 days IV over 4hr; occasionally up to 30mg/kg daily. Rabbit (ATG-Fresenius): 2.5-5mg/kg daily over 4-6hr IV.

Immunoglobulin, CMV. 100-200mg/kg IV over 2hr. Trans-

plant: daily for first 3 days, wkly x6, monthly x6.

Immunoglobulin, diphtheria. 250u IM once.

Immunoglobulin, hepatitis B. 400u IM within 5 days of needle stick, repeat in 30 days; 100u IM within 24hr birth to baby of Hep B carrier.

Immunoglobulin, human. Hypogammaglobulinaemia: 10-15 ml/kg of 6% soltn (600-900mg/kg) IV over 5-8hr, then 5-7.5 ml/kg (300-450mg/kg) over 3-4hr monthly; or 0.6ml/kg of 16% soltn (100mg/kg) every 2-4wk IM. Sepsis: 0.5g/kg IV over 4hr. Kawasaki, Guillain-Barre, ITP, myasth gravis, Still's dis: 35ml/kg of 6% soltn (2g/kg) IV over 16hr stat, then if required 15 ml/kg (900mg/kg) IV over 8hr each month. Prevention hep A: 0.1ml/kg (16mg/kg) IM. Prevent measles: 0.2 ml/kg (32mg/kg) IM (repeat next day if immunocompromised).

Immunoglobulin, human subcutaneous (SCIG). Multiply previous IV IgG dose by 1.37, and divide this into weekly doses. Usually 100-200mg/kg by SC infusion weekly. IgG/hyaluronidase (100mg/160u): hyaluronidase 480-960u/kg SC 10min before 300-600mg/kg IgG every 3-4wk SC.

Immunoglobulin, rabies (Hyperab, Imogam). 20iu (0.133 ml)/kg IM once (half SC around wound), with rabies vaccine.

Immunoglobulin, respiratory syncytial virus. 750mg/kg every month IV (50mg/ml: 1.5ml/kg/hr for 15min; 3ml/kg/hr for 15min, then 6ml/kg/hr).

Immunoglobulin, Rh (anti-D). 1ml (625iu, 125mcg) IM within 72hr of exposure. Large transfusion: 0.16ml (100iu, 20mcg) per ml RH positive red cells (maternal serum should be anti-D positive 24-48hr after injection).

Immunoglobulin, tetanus (TIG). IM preparation, prophylaxis: 250-500iu (1-2amp). IV preparation, treatment: 4000iu (100ml) at 0.04ml/kg/min for 30min, then 0.075 ml/kg/min IV; intrathecal usually 250iu.

Immunoglobulin, zoster. 1iu $\approx$ 1.5mg. Within 96hr of exposure: 0-10kg 300mg, 11-30kg 600mg, >30kg 900mg IM.

Incobotulinumtoxin A. NOT/kg: 120u divided between affected muscles IM, every 12wk if reqd. Blepharospasm: 1.25-2.5u in 3 sites/eye IM max total 200u/30days.

Indacaterol. Adult, NOT/kg: 75-120mcg (max 300mcg) cap daily using special inhaler. See glycopyrrolate.

Indapamide. 0.03-0.05mg/kg (adult 1.5-2.5mg) daily oral.

Indapamide 1.25mg + perindopril 5mg. Adult, NOT/kg: 1 tab daily oral.

Indinavir (IDV). >28 days: 500mg/m² (adult 800mg) 8H oral.

Indinavir + ritonavir (LPVr). >18yr: IDV 800mg + RTV 100-200mg 12H oral.

Indocyanine green. IV. Dye dilutn: 0.1mg/kg (adult 5mg).

Pulsion monitor: 0.25-0.5mg/kg. Liver functn: 0.5mg/kg.

Indomethacin. 0.5-1mg/kg (adult 25-50mg) 8H (max 6H) oral or PR; max 4mg/kg (adult 200mg) per day. Submicron (adult, NOT/kg): 20mg or 40mg 8H oral. PDA: 0.1mg/kg (<1kg) or

0.2mg/kg (≥ 1 kg) day 1, then 0.1mg/kg daily days 2-7 oral or IV over 1hr.

Indoramin. 0.5-1.5mg/kg (adult 25-75mg) 8-12H oral.

Infliximab. 3mg/kg (arthritis, with methotrexate) 5mg/kg (Crohn's, Ulc Colitis) IV over 2hr, then (if response) after 2wk, 6wk, and then 5-10mg/kg every 8wk.

Influenza A and B live nasal vaccine (Flumist). >5 yr: 0.25 ml/nostril; repeat after 6wk if aged 5-8yr and previously unimmunised. Boost annually (1 dose).

Influenza A and B vaccine. Inanimate. 0.125ml (3mo-2yr), 0.25ml (2-6yr), 0.5ml (>6 yr) SC stat and 4wk later (2 doses). Boost annually (1 dose).

Influenza A and B vaccine (Fluad, Fluzone HD). ≥ 65 yr (inanimate): 0.5ml SC annually.

Ingenol mebutate. 0.015% gel to head lesions daily x3; 0.05% gel to trunk or limbs daily x2.

Inosine acedoben dimepranol. Herpes, genital warts: 20 mg/kg (adult 1g) 6-8H oral. SSPE: 10-15mg/kg 4H oral.

Inositol nicotinate. 20mg/kg (adult 1g) 6-8H oral.

Insulin. Regular insulin IV: 0.025-0.1u/kg prn, or 0.025-0.1 u/kg/hr (2.5u/kg in 50ml at 0.5-2ml/hr); later 1u/10g dextrose. For hyperkalaemia: 0.1u/kg insulin and 2ml/kg 50% dextrose IV. In TPN: 5-25u/250g dextrose. SC insulin (onset/peak/duration): glulisine, lispro 10-15min/1h/2-5h; aspart 15-20 min/1h/3-5h; inhaled 10-15min/1h/6h; regular $\frac{1}{2}$ -1h/2h/6-8h; degludec 4h/9h/42h; detemir 2h/flat/24h; glargine 2h/flat /24h; isophane (NPH) 2-4h/4-12h/18-20h; zinc (lente) 2-3h/7-15h/24h; crystalline zinc (ultralente) 4-6h/10-30h/24-36h; protamine zinc 4-8h/ 15-20h/24-36h. If twice daily: $\frac{2}{3}$ before breakfast, $\frac{1}{3}$ before dinner, with $\frac{1}{3}$ short + $\frac{2}{3}$ long. If multiple: 20% short-acting before each meal, 40% long-acting in 1-2 divided doses. Inhaled (Afrezza): usually 4 (or 8 or 12) units/meal (x3/day).

Insulin (Exubera). Initially 30-39kg 1mg, 40-59kg 2mg, 60-79kg 3mg, 80-99kg 4mg, inhaled 10min before meal.

Interferon alfa-2a, recombinant. Haemangioma: 1 million u/m² daily SC or IM incr over 4wk to 2-3 million u/m² daily for 16-24wk, then x3/wk. Hep B, C: 3-6 million u/m² x3/wk SC or IM for 4-6mo; higher doses may be reqd in hep B.

Interferon alfa-2a / alfa-2b, pegylated. See peginterferon.

Interferon alfa-2b, recombinant. Condylomata: 1 million unit into each lesion (max 5) x3/wk for 5wk. Haemangioma: as for interferon alfa-2a. Hep B: monotherapy as for interferon alfa-2a. Hep C (adult, NOT/kg) 3 million unit x3/wk SC, plus ribavirin 1g (1.2g if >75 kg) daily oral, for 24-48wk.

Interferon alfacon-1. Hepatitis C (adult, NOT/kg): usually 9 mcg (7.5mcg if not tolerated) x3/wk SC for 24wk; if relapse 15mcg x3/wk SC for 6mo.

Interferon alfa-n3. Warts (NOT/kg): 250,000u injected into base of wart (max 10 doses/session) x2/wk for max 8wk.

interferon beta-1a. Mult scler (adult, NOT/kg): Avonex 30mcg (6 million IU) once a wk IM, Rebif 44mcg x3/wk SC.

Interferon beta-1b. Mult scler (adult, NOT/kg): 250mcg (8 million IU) SC alternate days.

Interferon gamma-1b. Chronic granulom dis: 1.5mcg/kg (body area $\leq 0.5\text{m}^2$) or 50mcg/ m^2 (area $>0.5\text{m}^2$) x3/wk SC.

Interleukin-2. See aldesleukin.

Iobenguane (iodine 123). 5.8 mCi per m^2 IV over 2min.

Iodine 5% + KI 10%. Oral, NOT/kg. Crisis: 0.1-1ml 8H. Thyroidectomy (Graves): 0.1-0.3ml 8H for 7-10 days preop.

Iodoquinol. See di-iodohydroxyquinoline.

Ipecacuanha syrup (total alkaloids 1.4mg/ml). 1-2ml/kg (adult 30ml) stat oral, NG. May repeat once in 30min.

Ipilimumab. 3mg/kg IV plus nivolumab 1mg/kg IV every 3wk for 4 doses, then nivolumab 3mg/kg every 2wk.

Ipratropium bromide. Resp soltn (250mcg/ml): 0.25-1ml diluted to 4ml 4-8H; severe attack every 20min for 3 doses, then 4-6H. Aerosol 20mcg/puff: 2-4 puffs 6-8H. Nasal: 84 mcg/nostril 6-12H.

Irbesartan. 3mg/kg (adult 150mg) daily oral, incr to 6mg/kg (adult 300mg) daily if reqd.

Irinotecan. 350mg/ m^2 IV over 90min every 3wk; reduce to 250-300mg/ m^2 every 3wk if toxicity.

Irinotecan, liposomal. 70mg/ m^2 (50-70mg/ m^2 if UGT1A1*28 homozygous) IV over 90min every 2wk.

Iron. See ferric salts, ferrous salts.

Iron dextran, iron polymaltose, iron sucrose. Fe 50mg/ml: dose (ml) = $0.05 \times \text{Wt in kg} \times (15 - \text{Hb in g\%})$ IM (often in divided doses). IV infsn possible (but dangerous).

Isavuconazonium sulphate. Adult, NOT/kg: 372mg 8H oral or IV over 1hr for 6 doses, then daily.

Isocarboxazid. Adult, NOT/kg: 10mg 12H oral, incr over 1wk to 20mg 12H; then incr if reqd over 2wk to max 30mg 12H.

Isoconazole. 1% cream 12H. Vaginal: 600mg (2 tab) once.

Isoetharine. Inhaltn soltn (1%): 0.5ml dilt to 4ml 3-6H (mild), 1ml dilt to 4ml 1-2H (moderate), undilt constant (severe, in ICU). Aerosol 340mcg/puff: 1-2 puffs 4-6H.

Isoflurane. 1.5-3% for induction, then 1-2.5% inhalation.

Isometheptene. 2.5mg/kg (max 130mg) stat, then 1.5mg/kg (max 65mg) 1H to max 7mg/kg (max 325mg) in 12hr oral. See also dichloralphenazone.

Isoniazid (INAH). 10mg/kg (max 300mg) daily oral, IM or IV. Intermittent: 15mg/kg 3 times a week. TB meningitis: 15-20 mg/kg (max 500mg) daily.

Isoniazid + rifampicin. 30-49kg 150mg/100mg tabs x3 daily, $\geq 50\text{kg}$ 300mg/150mg tabs x2 daily oral.

Isoniazid 50mg + pyrazinamide 300mg + rifampicin 120mg tab. 30-39kg x3, 40-49kg x4, 50-64kg x5, $\geq 65\text{kg}$ x6tab daily.

isoprenaline. IV infsn (start with low dose and increase gradually): $<33\text{kg}$ 0.3mg/kg in 50ml at 0.5-10ml/hr (0.05-

1mcg/kg/min); >33kg give 1/5000 (0.2 mg/ml) soltn at 0.015-0.15ml/kg/hr (0.05-0.5mcg/kg/min). T½ 2min.

Isoproterenol. See isoprenaline.

Isosorbide dinitrate. Sublingual: 0.1-0.2mg/kg (max 10mg) 2H or as needed. Oral: 0.5-1mg/kg (max 40mg) 6H or as needed. Slow release tab, Adult, NOT/kg: 20-80mg 12H. IV infsn 0.6-2mcg/kg/min.

Isosorbide mononitrate. Slow release tab; Adult, NOT/kg: 60-120mg daily oral.

Isotretinoin. 0.5-1mg/kg daily oral for 2-4wk, reducing if possible to 0.1-0.2mg/kg daily for 15-20wk; total dose 120-150mg/kg to reduce relapse. Infant: often 10mg cap alternate days. 0.05% gel: apply sparingly at night.

Isoxsuprine. 0.2-0.5mg/kg (adult 10-20mg) 6-12H oral.

Ispaghula husk. Adult, NOT/kg: 1-2 x5ml teaspoonfuls 6-12H oral. Half this dose 6-12yr.

Isradipine. 0.05mg/kg 12H oral, may incr after 2-4wk gradually to 0.1-0.2mg/kg (max 10mg) 12H.

Itraconazole. Oral. Daily: liquid 3-5mg/kg cap 5-7.5 mg/kg (adult 200mg). 12H: Liquid 1.5-2.5mg/kg cap 2.5-4mg/kg (adult 100mg). Severe infn: liquid 5mg/kg (adult 200mg) 12H. Trough level >0.5 mcg/ml at 10-14 days.

Ivabradine. 0.1mg/kg (adult 5mg) 12H oral, range 0.05-0.15 mg/kg (adult 2.5-7.5mg) 12H.

Ivacaftor. NOT/kg: 150mg 12H with fatty meal oral.

Ivacaftor 125mg + lumacaftor 200mg. NOT/kg: 2 tab 12H oral.

Ivermectin. 0.2-0.4mg/kg (adult 12-24mg) oral; repeat after 7-10 days. Onchocerciasis: 0.2mg/kg every 3-12mo (not curative). Head lice: 0.5% lotion to hair for 10min then rinse; repeat after 7-10 days. Rosacea: 1% cream to face daily.

Ixabepilone. 40mg/m² IV over 3hr every 21 days for median of 4 cycles. Vary dose with CYP3A4 inhibitors or inducers.

Ixazomib. Adult NOT/kg: 4mg oral day 1,8,15 of 28-day cycle.

Ixekizumab. Adult, NOT/kg: 160mg SC wk 0, then 80mg wk 2, 4, 6, 8, 10, 12, then every 4wk.

Japanese encephalitis vaccine, inanimate. Ixiaro: adult 0.5ml IM stat and 28 days later. JE-Vax: 0.5ml (1-3yr), 1ml (>3yr) SC stat, 7-14 days later, and (optionally) 1mo later. Boost after 1yr.

Japanese encephalitis vaccine, live. Imojev: ≥12mo 0.5ml SC, boost after 1-2yr (age 1-17yr) or 5yr (adult).

Kanamycin. Single daily dose IV or IM. Neonate: 15mg/kg stat, then 7.5mg/kg (<30wk) 10mg/kg (30-35wk) 15mg/kg (term <1wk) daily. 1wk-10yr: 25mg/kg day 1, then 18mg/kg daily. >10yr: 20mg/kg day 1, then 15mg/kg (max 1.5g) daily. Trough level <5.0mg/L.

Kcentra. Factor IX 25u/kg (INR 2-4), 35u/kg (INR 4-6), 50u/kg (INR >6) at 3u/kg/min (max 210u/min) IV.

Keppra. See levetiracetam.

Ketamine. Sedation, analgesia: 1-1.5mg/kg IV, 3-4mg/kg IM

(may repeat after 10min); infsn 2-6 mcg /kg/min IV (6mg/kg in 50ml at 1-3ml/hr). Anaesthesia: 5-10mg/kg IM, 1-2mg/kg IV, infsn 15mg/kg in 50ml at 2-8ml/hr (10-40mcg/kg/min). Premed: 5mg/kg oral. Incompatible with aminophylline, magnesium and salbutamol IV.

Ketanserin. IV: 0.5-5mcg/kg/min (max 150mg/day). Oral 0.5 mg/kg (max 20mg), incr to max 1mg/kg (max 40mg) 12H.

Ketoconazole. Oral: 5mg/kg (adult 200mg) 12-24H. 2% cream: apply 12-24H. 2% shampoo: wash hair, apply liquid for 5min, wash off.

Ketoprofen. 1-2mg/kg (adult 50-100mg) 6-12H (max 4mg/kg or 200mg in 24hr) oral, IM, PR. Slow-rel, adults (NOT/kg): 200mg daily.

Ketoprofen + omeprazole. 100mg/20mg or 200/20 slow-rel cap. Adult, NOT/kg 1 cap daily oral.

Ketorolac. Oral: 0.2mg/kg (adult 10mg) 4-6H (max 0.8 mg/kg/day or 40mg/day). IV or IM: usually 0.2mg/kg (adult 10mg) 6H; but may use 0.6mg/kg (adult 30mg) 6H (max 120mg/d) for 5 days, then 0.2mg/kg (adult 10mg) 6H. Single dose 1mg/kg (adult 60mg) IM. Nasal 15.75mg/spray: adult 1 each nostril (≥ 65 yr 1 nostril). Eye drop 0.5%: 1 drop 8H.

Ketotifen. Child >2 yr (NOT/kg): 1mg 12H oral with food. Adult, NOT/kg: 1-2mg 12H oral with food.

Labetalol. Oral: 1-2mg/kg (adult 50-100mg) 12H, may incr wkly to max 10mg/kg (max 600mg) 6H. IV: 0.25-0.5mg/kg (adult 20mg) over 2min repeated every 10min if reqd, then 0.25-3mg/kg/hr.

Lacidipine. 0.04-0.12mg/kg (adult 2-6mg) daily oral.

Lacosamide. 1mg/kg (adult 50mg) 12H, incr weekly if reqd to 2-4mg/kg (adult 100-200mg) 12H IV over 1hr or oral.

Lactase. See tilactase.

Lactitol. 0.1-0.3g/kg (adult 10-20g) 1-3 times a day oral.

Lactulose. 3.3g/5ml soltn. Laxative: 0.5ml/kg 12H oral. Hepatic coma: 1ml/kg hrly until diarrhoea, then 6-8H.

Lamivudine (3TC). Neonate <30 days: 2mg/kg 12H oral. Child >30 days: 4mg/kg 12H oral. Adult <50 kg: 2mg/kg 12H oral. Adult >50 kg: 150mg 12H or 300mg daily oral. Hepatitis B: 3-4 mg/kg (max 100mg) daily oral. See also abacavir.

Lamivudine 150mg + zidovudine 300mg (Combivir). ≥ 30 kg 1 tab 12H oral.

Lamotrigine. 0.2mg/kg (adult 25mg) oral daily, double dose every 2wk if reqd to max 1-2.5mg/kg (adult 50-200mg) 12H. Beware drug interactions.

Lanreotide. 0.5-1.0mg/kg (adult 30mg) IM every 2wk (adjust dose and frequency according to response).

Lansoprazole. NOT/kg. 15mg (1yr-30kg) 30mg (>30 kg) daily.

Lanthanum carbonate. Adult, NOT/kg: 0.5-1g 8H with meal.

Lapatinib. Adult, NOT/kg: 1.25g every day oral (plus capecitabine 2g/m²/day on days 1-14 of a repeating 21 day cycle).

Laronidase. 0.58mg/kg IV once a week.

Laropiprant + nicotinic acid. Adult, NOT/kg. 20mg/1g tabs; 1 tab daily oral, incr to 2 tab daily after 4wk.

L-asparaginase. See colaspase.

Latanoprost. 50mcg/ml: 1drop/eye daily.

Latanoprost 0.005% + timolol 0.5%. 1drop per eye daily.

Laureth-9. Spider veins: inject 0.1-0.2ml of 0.5% (10mg /2ml). Small varices: 0.1-0.3ml of 1% (20mg/2ml). Medium varices: 0.5-1ml of 3% (60mg/2ml). Max 2mg/kg/day.

Lauromacrogol. See heparinoid + lauromacrogol ointment.

L-carnitine. See carnitine, L form.

Ledipasvir 90mg + sofosbuvir 400mg. Adult, NOT/kg 1 tab daily oral: no cirrhosis 8wk (RNA <6m IU/ml), 12wk (RNA ≥6m IU/ml); cirrhosis 24wk (12wk with ribavirin).

Leflunomide. Adult, NOT/kg: 100mg daily x3, then 20mg daily oral.

Lenalidomide. Adult, NOT/kg: 10mg daily oral; or 25mg daily on days 1-21 of 28 day cycles.

Lenograstim (rHuG-CSF, Granocyte). 150mcg/m² daily SC or IV over 30min. Keep WCC 5,000-10,000/mm³.

Lenvatinib. Adult, NOT/kg: 24mg daily oral.

Lepirudin. 0.4mg/kg IV stat, then 0.15mg/kg/hr (adjusted by APTT) for 2-10 days.

Lercanidipine. 0.2mg/kg (adult 10mg) daily oral, incr to 0.4 mg/kg (adult 20mg) daily if reqd.

Letrozole. Adult, NOT/kg: 2.5mg daily oral.

Leucovorin. See folinic acid.

Leuprolide. See leuprorelin.

Leuprorelin (GnRH or LHRH). Adult, NOT/kg: 7.5mg depot injtn monthly IM; or microspheres 11.25mg SC every 3mo. Precocious puberty: depot 30mg IM every 3mo.

Levalbuterol (levosalbutamol). See salbutamol.

Levamisole. Anthelmintic: 3mg/kg (adult 150mg) oral once (ascaris), repeat in 1wk (hookworm). Adenocarcinoma colon (with 5-fluorouracil 450mg/m² IV wkly): 1mg/kg (adult 50mg) 8H oral for 3 days every 2wk.

Levetiracetam. 7mg/kg (adult 500mg) 12H oral, IV, IM, incr every 2-4wk to max 30mg/kg (max 1.5g) 12H if reqd; higher doses used in resistant cases. Status: 50mg/kg (max 2.5g) IV over 10min, then 30-40mg/kg (max 2g) 8H (up to 4H if reqd) while fitting.

Levobetaxolol. 0.5% soltn: 1drop/eye 12H.

Levobunolol. 0.25%-0.5% soltn: 1drop/eye 12-24H.

Levobupivacaine. See bupivacaine.

Levocabastine. 0.5mg/ml: 1drop/eye 6-12H max 8wk, 2 sprays/nostril 6-12H max 8wk.

Levocarnitine. See carnitine.

Levocetirizine. NOT/kg: 2.5mg (6-11yr) 5mg (adult) daily.

Levodopa + benserazide (4:1). Adult, NOT/kg: initially levodopa 100mg 8H oral; if not controlled, incr wkly by 100mg/day to max 250mg 6H.

Levodopa + carbidopa T½ immediate < sustained < extended.

Levodopa + carbidopa. Immediate 250/25mg, 100/25 100/10 tab. Adult, NOT/kg: initially one 100/10 tab 8H oral; if not controlled, substitute one 250/25 tab for one 100/25 tab every 2nd day; if not controlled on 250/25 8H, incr by one 250/25 tab every 2nd day to max 6-8 tab/day, Sustained 25/100, 50/200 tab: 400-1600mg levodopa daily, divided.

Levodopa + carbidopa. Extended 23.75/95mg, 36.25/145, 48.75/195, 61.25/245 cap. Adult, NOT/kg: 8H oral 23.75/95 day1, day4 36.25/145, if reqd 97.5/390 day7 (incr up to x5/day if reqd). Transfer: 1.7 x daily dose of immediate levodopa divided 8H, then adjust.

Levodopa + carbidopa + entacapone. 50/12.5/200mg, 75/18.75/200, 100/25/200, 125/31.25/200, 150/37.5/200, 175/43.75/200, 200/50/200. 1 tab 8H, titrate dose to response (max entacapone 2g/day, levodopa 1g/day).

Levofloxacin. 5-10mg/kg (adult 250-500mg) 12-24H oral or IV over 1hr. Eye 5mg/ml: 1drop x8/day for 2 days, then 6H.

Levofolate, levofolinic acid, levoleucovorin. Half the dose of calcium folinate.

Levomepromazine. See methotrimeprazine.

Levomethadyl acetate. Adult, NOT/kg: usual starting dose 20-40mg every 2-3 days oral.

Levomilnacipran. Adult, NOT/kg: 20mg daily oral, incr by 20mg every 2 days to max 120mg daily.

Levonorgestrel. Contraception: 30mcg daily oral, starting 1st day menstruation. Intrauterine T-system 52mg or 13.5mg: insert within 7 days of start of menstruation, replace after 3yr. Post-coital: 0.75mg stat and in 12hr, or 1.5mg stat oral preferably within 12hr and no later than 72hr; or 0.5mg + ethinylloestradiol 100mcg oral within 72hr, repeat in 12hr. See ethinylloestradiol, oestradiol.

Levonorgestrel + oestradiol. 7/50mcg or 15/45 per day patch. Post-menopausal (NOT/kg): 1 patch/wk.

Levorphanol. 0.03-0.1mg/kg 12-24H oral or SC.

Levosimendan. 0.3mg/kg (adult 0.15-0.3mg/kg) in 6ml/kg 5%D (no heparin) and give 1.5ml/kg/hr for 10min (12.5 mcg/kg), then 0.24ml/kg/hr (0.2mcg/kg/min; adult 0.1-0.2 mcg/kg/min) for 24hr IV. Via CVC or peripheral IV.

Levothyroxine sodium. See thyroxine.

Lidocaine. See lignocaine.

Lifitegrast. 5% 1 drop per eye 12H.

Lignocaine. IV: 1% soltn 0.1ml/kg (1mg/kg) over 2min, then 0.09-0.3ml/kg/hr (15-50mcg/kg/min); or 30mg/kg in 50ml at 50ml/hr for 2min, then 1.5-15ml/hr (15-50mcg/kg/min). Nerve block: without adrenaline max 4mg/kg (0.4ml/kg of 1%), with adrenaline 7mg/kg (0.7ml/kg of 1%). Topical spray: max 3-4 mg/kg (Xylocaine 10% spray pack: about 10mg/puff). Topical 2% gel, 2.5% compound mouth paint/gel (SM-33), 2% and 4% soltn, 5% ointment, 10% dental ointment: apply 3H prn.

Calculation of drug infusions (50ml syringe pump)

1. Select drug dose to be delivered in mcg/kg/min (first column)
2. Select syringe pump infusion rate in ml/hour (centre of table)
3. Calculate number of mg of drug in 50ml syringe (top row)

Example: 10 kg child, dose 0.1-2.0 mcg/kg/min, at 1-20 ml/hr =

	0.15mg/kg in 50ml	0.3mg/kg in 50ml	0.6mg/kg in 50ml	1.5mg/kg in 50ml	3mg/kg in 50ml
MCG/KG/MIN	ML/HR	ML/HR	ML/HR	ML/HR	ML/HR
0.05	1	1	1	1	1
0.1	2	1	1	1	1
0.2	4	2	1	1	1
0.3	6	3	1.5	1	1
0.4	8	4	2	1	1
0.5	10	5	2	1	1
0.6	12	6	3	1	1
0.7	14	7	3	1	1
0.8	16	8	4	1	1
0.9	18	9	4	1	1
1.0	20	10	5	2	1
1.5		15	10	3	1.5
2.0		20	10	4	2
3.0				6	3
4.0			20	8	4
5.0				10	5
6.0				12	6
7.0				14	7
8.0				16	8
9.0				18	9
10.0				20	10
12.0					12
14.0					14
15.0					15
20.0					20
25.0					
30.0					
40.0					
50.0					
100.0					
150.0					
200.0					

1 mg/kg/hr = 16.7 mcg/kg/min = 50 mg/kg in 50ml at 1ml/hr.

mg/kg in 50ml = 3 x (dose in mcg/kg/min) / (rate in ml/hr).

0.3 mg/kg (= 3mg) of the drug in 50ml

6mg/kg in 50ml	15mg/kg in 50ml	30mg/kg in 50ml	60mg/kg in 50ml	NORADREN		MORPHINE		MILRINONE		ISOPRENALINE		NITROPRUSSIDE	
												MAXIMUM HOURS OF INFUSION	
ML/HR 1 1.5 2	ML/HR 1			DOPAMINE		DOBUTAMINE		GLYCERYL TRINITRATE		ADRENALINE		10	
3 4 5	2	ML/HR 1								KETAMINE		8	
6 7 10	3 4 5	1.5 2	ML/HR 1									7	
15 20	6 8 10 20	3 4 5 10 15 20	1.5 2 5 10					LIGNOCAINE				7	
								THIOPENTONE				6	

1 mg/kg in 50ml at 1ml/hr = 0.02 mg/kg/hr = 0.33 mcg/kg/min.
 mg/kg in 50ml = 50 x (dose in mg/kg/hr) / (rate in ml/hr).

Lignocaine 2.5% + prilocaine 2.5%. Cream (EMLA): 0.5g/10cm² (0-3mo) 1g/10cm² (3mo-12yr) 1-2g/10cm² (>12yr) under occlusive dressing for 1-3hr. Patch (EMLA): max 1 for 1hr (0-3mo), 2 for 4hr (3-12mo), 5 for 4hr (>12mo).

Lignocaine + tetracaine. Cream 70mg+70mg/g. >18yr: apply 1.3g/10cm² for 30-60min, max 400cm².

Linaclootide. Adult, NOT/kg: 145-290mcg daily oral.

Linagliptin. Adult NOT/kg 5mg tab daily. See empagliflozin.

Linagliptin + metformin. Adult, NOT/kg oral. 2.5/1000mg, 2.5/850, 5/1500: 1 tab 12H. ER 2.5/1000mg, 5/1000: 1 tab daily.

Lincomycin. 15mg/kg (adult 600mg) 8H oral, IM or IV over 1hr. Severe infn: 15-20mg/kg (adult 1.2g) IV over 2hr 6H.

Lindane. 1% cream, lotion. Scabies: apply from neck down, wash off after 8-12hr. Lice: rub into hair for 4min, then wash off; repeat after 24hr (max x2/wk).

Linezolid. 10mg/kg 8H (child, max 600mg) or 600mg 12H (adult), IV over 1-2hr or oral.

Linoleic acid. See fatty acids.

Liothyronine sodium (LT3). Oral: 0.2mcg/kg (adult 10mcg) 8H, titrated to 0.4mcg/kg (adult 20mcg) 8H. IV: 0.1-0.4 mcg/kg (adult 5-20mcg) 8-12H. Septic shock: 0.1-0.2 mcg/kg/hr (adult 100-200mcg/day) IV. LT4, see thyroxine.

Liotrix (LT3/LT4). Adult, NOT/kg: 12.5/50mcg to 25/100 daily oral.

Lipase, lipolytic enzymes. See pancreatic enzymes.

Lipegfilgrastim. Adult, NOT/kg: 6mg SC day 2 of chemo cycle.

Lipid. 20%: 1-3g/kg/day IV (ml/hr = g/kg/day x Wt x 0.21).

Liraglutide. Adult, NOT/kg SC: diabetes 0.6mg for 1wk, then 1.2-1.8mg daily; obesity 0.6mg incr over 5wk to 3mg daily.

Lisdexamphetamine. NOT/kg. 6-12yr: 30mg daily oral, incr over 2-3wk to max 70mg daily.

Lisinopril. 0.1mg/kg (adult 5mg) daily oral, may incr over 4-6wk to 0.2-1mg/kg (adult 10-20mg) daily.

Lithium. 5-20mg/kg 8-24H oral. Slow release tab 450mg (adult, NOT/kg): 1-2 tab 12H. Maintain trough level 0.8-1.6mmol/L (>2mmol/L toxic).

Lixisenatide. Adult, NOT/kg: 10mcg daily SC for 2wk, then 20mcg daily.

L-methylfolate. Adult, NOT/kg: 7.5-15mg daily oral.

Lodoxamide. 0.1% soltn: 1 drop/eye 6H.

Lofepamide. Adult, NOT/kg: 70mg am, 70-140mg night oral.

Lofexidine. 2-8mcg/kg (adult 100-400mcg) 6-12H oral.

Lomefloxacin. 8mg/kg (adult 400mg) daily oral.

Lomitapide. Adult, NOT/kg: 5mg daily oral, incr every 4wk to max 60mg daily if tolerated.

Lomustine (CCNU). 100-130mg/m² oral every 6 wk.

Loperamide. 0.05-0.1mg/kg (adult 2-4mg) 8-12H oral, incr if reqd to max 0.4mg/kg (max 4mg) 8H.

Lopinavir + ritonavir (LPV/r). ≥2wk: 230/57.5 mg/m² (max 400/100 mg) 12H oral. With efavirenz, fosamprenavir, nelfin-

avir or nevirapine (if $\geq 6\text{mo}$): $300/75\text{ mg/m}^2$ (max 600/150mg) 12H. Trough lopinavir $\geq 1000\text{ng/ml}$.
Lopinavir + ritonavir + saquinavir. 7-15yr: LPV 400mg/m^2 + RTV 100mg/m^2 + SQV 750mg/m^2 12H oral.
Loprazolam. Adult, NOT/kg: 1mg (max 2mg) bedtime oral.
Loracarbef. 4-8mg/kg (adult 200-400mg) 12H oral.
Loratadine. NOT/kg: 2.5mg (1yr-12kg) 5mg (12-30kg), 10mg ($>30\text{kg}$) daily oral.
Lorazepam. 0.02-0.06mg/kg (adult 1-3mg) 8-24H oral. IV: 0.05-0.2mg/kg IV over 2min, then 0.01-0.1mg/kg/hr.
Lorcaserin. Adult, NOT/kg: 10mg 12H oral.
Lormetazepam. Adult, NOT/kg: 0.5mg (max 1.5mg) at bedtime oral.
Losartan. 0.5-2mg/kg (adult 25-100mg) daily oral.
Loteprednol. NOT/kg. 0.5% 1-2 drops/eye 6H.
Lovastatin. 0.4-0.8mg/kg (adult 20-40mg) 12-24H oral. Slow release (adult, NOT/kg): 10-60mg at bedtime.
Lovastatin + niacin. 20/500mg, 20/750, 20/1000 or 40/1000 slow-rel tab. 20mg/500mg at bedtime oral, incr if reqd every 4wk by 500mg niacin to max 40mg/2000mg.
Loxapine. 0.2-1mg/kg (adult 10-60mg) 6-12H oral, IM. Inhaled (adult, NOT/kg): 10mg daily.
Lopinavir + ritonavir (LPV/r). $\geq 2\text{wk}$: $230/57.5\text{ mg/m}^2$ (max 400/100mg) 12H oral. With efavirenz, fosamprenavir, nelfinavir or nevirapine (if $\geq 6\text{mo}$): $300/75\text{ mg/m}^2$ (max 600/150mg) 12H. Trough lopinavir $\geq 1000\text{ng/ml}$.
Lopinavir + ritonavir + saquinavir. 7-15yr: LPV 400mg/m^2 + RTV 100mg/m^2 + SQV 750mg/m^2 12H oral.
Loprazolam. Adult, NOT/kg: 1mg (max 2mg) bedtime oral.
Loracarbef. 4-8mg/kg (adult 200-400mg) 12H oral.
Loratadine. NOT/kg: 2.5mg (1yr-12kg) 5mg (12-30kg), 10mg ($>30\text{kg}$) daily oral.
Lorazepam. 0.02-0.06mg/kg (adult 1-3mg) 8-24H oral. IV: 0.05-0.2mg/kg IV over 2min, then 0.01-0.1mg/kg/hr.
Lorcaserin. Adult, NOT/kg: 10mg 12H oral.
Lormetazepam. Adult, NOT/kg: 0.5mg (max 1.5mg) at bedtime oral.
Losartan. 0.5-2mg/kg (adult 25-100mg) daily oral.
Loteprednol. NOT/kg. 0.5% 1-2 drops/eye 6H.
Lovastatin. 0.4-0.8mg/kg (adult 20-40mg) 12-24H oral. Slow release (adult, NOT/kg): 10-60mg at bedtime.
Lovastatin + niacin. 20/500mg, 20/750, 20/1000, 40/1000 slow-rel tab. Adult, NOT/kg: 20/500 at bedtime oral, incr if reqd every 4wk by 500mg niacin to max 40/2000mg.
Loxapine. 0.2-1mg/kg (adult 10-60mg) 6-12H oral, IM. Inhaled (adult, NOT/kg): 10mg daily.
L-tryptophan. Adult, NOT/kg: 1-2g 8H oral.
Lubiprostone. Adult, NOT/kg: 8-24mcg 12H oral with food.
Luliconazole. 1% cream. Apply daily.
Lumacaftor. See ivacaftor.

Lumefantrine (benflumetol). See artemether.

Lurasidone. Adult, NOT/kg: 40mg daily oral with food, incr to max 80mg daily if reqd.

Lutropin alfa (luteinising hormone). Adult, NOT/kg: 75iu daily SC, with 75-150iu follicle stimulating hormone.

Lymecycline. 408mg = 300mg tetracycline base. Adult, NOT/kg: 408mg 12H oral.

Lymphocyte immune glob. See immunoglobulin, lymphocyte.

Lynestrenol. Menstrual disorders (NOT/kg): 5mg (max 15mg) daily oral. Contraception: 0.5-2.5mg daily.

Lypressin (lysine-8-vasopressin). 1 spray (2.5iu) in 1 nostril 4-8H, may incr to 1 spray both nostrils 4-8H. T½ 15min.

Lysuride. Migraine: 0.5mcg/kg (adult 25mcg) 8H oral. Parkinson's, adults (NOT/kg): 0.2mg daily, incr by 0.2mg daily each wk to max 1.6mg 8H oral.

Macitentan. NOT/kg: 10mg daily oral; gradual introdtn in child.

Macrogol 3350, 105g/L. 2-11yr 6.563g in 60ml water, >11yr 13.125g in 125ml water: 1 sachet daily oral, incr to 2-3/day if reqd. Faecal impactn >2yr: one 13.125g sachet in 125ml water per 5kg body wt (adult 8 sachet) consumed in <6hr (max 3 days therapy). See also colonic lavage.

Macrogol 3350 powder 255g in 2L Gatorade. Adult 1L oral over 1hr night before, 1L next morning 5hr pre-colonoscopy.

Macrogol 400 (polyethylene glycol) 1% + tetrahydrozoline 0.05%. 1 drop/eye 8-12H.

Macrogol 4000. ≥8yr (NOT/kg): 10-20g daily oral.

Mafenide acetate. 8.5% cream: apply 2mm layer 12-24H. 5% soltn: apply 4-8H to keep dressings wet.

Maggots of *Lucilia sericata*, sterile. Packs: standard (for standard wound), boot (toe, amputation stump), boot (foot), sleeve (limb wound). Change after 3 days; sooner if reqd.

Magnesium alginate. See alginic acid.

Magnesium aspartate (Magmin). 500mg tab = 1.5mmol Mg. Low Mg: 5 tabs per m² per day in divided doses.

Magnesium chloride 10%. 0.48g/5ml = Mg 1mmol/ml. Low Mg: 0.4ml/kg slow IV, then 0.3ml/m²/hr. My infarct (NOT/kg): 5ml/hr IV for 6hr, then 1ml/hr for 24-48hr. VF: 0.06ml/kg IV.

Magnesium hydroxide. 58mg = Mg 1mmol. Low Mg: 7.5 mmol/m²/day oral (1.4 ml/m² 6H of 78mg/ml soltn). Antacid: 10-40mg/kg (max 2g) 6H oral. Laxative: 50-100mg/kg (max 5g). See also Al hydroxide + Mg hydroxide + simethicone.

Magnesium oxide. 40mg = Mg 1mmol. Low Mg: 7.5 mmol/m²/day oral (1.4 ml/m² 6H of 55mg/ml soltn).

Magnesium sulphate 50% (2mmol/ml). Low Mg: 0.2ml/kg IM or slow IV, then 0.16ml/m²/hr. Asthma, digoxin tachycardia, eclampsia, prem labour, pul ht: 0.1ml/kg (50 mg/kg) IV over 20min, then 0.06 ml/kg/hr (30mg/kg/hr); keep serum Mg 1.5-2.5mmol/L (pul ht 3-4mmol/L). Myoc infarct (NOT/kg): 2.5 ml/hr (5mmol/hr) IV for 6hr, then 0.5 ml/hr (1mmol/hr) for 24-48hr. VF: 0.05-0.1ml/kg (0.1-0.2 mmol/kg) IV. Incompatible

with aminophylline; ketamine, salbutamol. Laxative: 1ml/kg = 0.5g/kg (max 15g) as 10% soltn 8H for 2 days oral.

Malathion. See maldison.

Maldison. 0.5% liquid: 20ml to hair, wash off after 12hr.

Mannitol. 0.25-0.5g/kg IV (2-4ml/kg of 12.5%, 1.25-2.5ml/kg of 20%, 1-2ml/kg of 25%) 2H prn, if ser osmolal <330mmol/L.

Maprotiline. 0.15-1mg/kg (adult 10-50mg) 8-24H oral.

Maraviroc (MVC). ≥ 16yr: 150mg (with strong CYP3A inhibitors, incl protease inhibitors), 300mg (with tipranavir or ritonavir), 600mg (with CYP3A inducers, incl efavirenz) 12H oral. Resistant HIV-1 trough >50 ng/ml.

Marimastat. Adult, NOT/kg: 5-25mg (usual 10mg) 12H oral.

Mazindol. Adult, NOT/kg: 0.5mg daily oral, up to 3mg daily.

Measles vaccine (Attenuvax). Live. ≥12mo: 0.5ml SC once.

Measles + mumps vaccine (Rimparix). Live. ≥12mo: 0.5ml SC once.

Measles + mumps + rubella vaccine (MMRII, Priorix). Live. ≥12mo: 0.5ml SC.

Measles + mumps + rubella + varicella vaccine (Priorix-Tetra). ≥9mo: 0.5ml SC, if 9mo-12yr boost after 6-12wk.

Mebendazole. Oral, NOT/kg: 50mg (6mo-10kg) 100mg (>10kg) 12H x3 days (hook, round, whip) or single dose repeated after 2wk (thread).

Mebeverine. 135mg tab: Adult, NOT/kg 1-3 tab daily oral.

Mebhydrolin. 1-2mg/kg (adult 50-100mg) 8-12H oral.

Mecamylamine. 0.05mg/kg (adult 2.5mg) 12H oral; may incr to max 0.5mg/kg (adult 25mg) 6H oral.

Mecasermin. 40-80mcg/kg (max 120mcg/kg) 12H SC.

Mechlorethamine. See mustine HCl.

Meclizine. See meclozine.

Meclofenamate. 1-2mg/kg (adult 50-100mg) 6-8H oral.

Meclozine. 0.5-1mg/kg (adult 25-50mg) 12-24H oral.

Mecysteine. Adult, NOT/kg: 200mg 8-12H oral.

Medroxyprogesterone. Adult, NOT/kg: 5mg daily for 5-10 days per month oral; precocious puberty 5-10mg daily; to achieve amenorrhoea 10-20mg daily; uterine hge 60mg daily reducing over 10 days to 10mg; malignancy 0.5g daily IM or oral for 4wk, then 1g wkly. Depot contraceptive: 150 mg deep IM during 1st 5 days of cycle, then repeat every 12wk. See also conjugated oestrogens.

Medroxyprogesterone + oestradiol. 2.5/1mg, 5/0.625, 5/1, 5/2 tabs. Post-menopausal: 1 tab daily oral.

Medroxyprogesterone 10mg tab + oestradiol 4mg patch. NOT/kg: 10mg tab daily oral for first 10-14 days of each 28 day cycle, and 4mg patch x2/wk continuously.

Medrysone. 1% soltn: 1 drop/eye 6-12H.

Mefenamic acid. 10mg/kg (adult 500mg) 8H oral.

Mefloquine hydrochloride. 15mg/kg (max 750mg) stat, then 10mg/kg (max 500mg) after 6-12hr. Prophylaxis: 5mg/kg (adult 250mg) wkly. 15mg hydrochloride = 13.7mg base.

Mefruside. 0.5-1mg/kg (up to 2mg/kg for 3 days) daily 10-14 days, then 0.5-1mg/kg (adult 25-50mg) every 2-3 days.

Megestrol acetate. NOT/kg: 80mg per dose 12H oral.

Meglumine antimonate. Soltn 85mg/ml of pentavalent antimony. Same dose as sodium stibogluconate, deep IM.

Melatonin. Usually 0.1mg/kg (adult 5mg) at night oral. Slow-rel (NOT/kg): 2mg tab at night. Sack NEJM 2010;362:440.

Meloxicam. 0.1-0.3mg/kg (adult 5-15mg) daily oral, PR.

Melphalan. Usually 6mg/m² daily x5, repeat every 6wk.

Memantine. Adult, NOT/kg: 5mg daily oral, incr by 5mg wklly to max 10mg 12H. See donepezil.

Menadiol, menadione. See menaphthone sod bisulphate.

Menaphthone sodium bisulphite (vitamin K3). NOT/kg: 5-10mg x1-2/wk (infant) 10mg daily (child) 10mg 8H (adult) oral. Mitochondrial dis (all ages, not/kg): 10mg 6H oral.

Meningococcus gp A, C, W135, Y conjugate vaccines. Inanimate. Menactra 2-55yr 0.5ml IM. Menveo 11-55yr 0.5ml IM. Menomune ≥2yr 0.5ml SC.

Meningococcus gp A, C, W135, Y vaccine (Mencevax ACWY). Inanimate. >2yr: 0.5ml SC. Boost 1-3yrly.

Meningococcus gp B, conjugate vaccine (Bexsero). Inanimate. 0.5ml IM: 2mo, 3mo, 4mo, boost 12-23mo; 6-11 mo x2 doses ≥2mo apart, boost 12-23mo; 1-10yr x2 doses ≥2mo apart; 11-50yr x2 doses ≥1mo apart.

Meningococcus gp B, conjugate vaccine (Trumenba). Inanimate. 10-25yr 0.5ml x3 doses: stat, 2mo, 6mo IM.

Meningococcus gp C, conjugate vaccine (Meningitec, Menjugate, NeisVac-C). Inanimate. 0.5ml IM: 3 doses 1-2mo apart (6wk-6mo), 2 doses (6-12mo), 1 dose (>12mo).

Menopausal gonadotrophin. See menotrophin.

Menotrophin (FSH + LH activity). Females (NOT/kg): 75+75iu or 150+150iu IM daily for 9-12 days until oestrogen levels rise, then give HCG. Males (NOT/kg): 75+75iu IM x2-3/wk with HCG 7000iu IM x2/wk.

Mepenzolate. Adult, NOT/kg: 25-50mg 6H oral.

Meperidine. See pethidine.

Mephénytoin. See methoin.

Mephobarbital. See methylphenobarbitone.

Mepivacaine. Max dose 5-7mg/kg.

Mepolizumab. Adult, NOT/kg: 100mg every 4wk SC.

Meprobamate. 5-10mg/kg (max 800mg) 8-12H oral.

Meptazinol. 4mg/kg (adult 200mg) 3-6H oral.

Mepyramine. 2-4mg/kg (adult 100-200mg) 8H oral.

Mequitazine. 0.1mg/kg (adult 5mg) 12H oral.

Mercaptamine. See cysteamine.

Mercaptopurine (6MP). 75-100mg/m² daily oral.

Meropenem. 10-20mg/kg (adult 0.5-1g) 8H IV over 5-30min. Severe infn: 20-40mg/kg (adult 1-2g) 12H (1st wk life) 8H (>1wk) or constant infsn.

Mesalazine (mesalamine). Usually high initial dose, lower

maintenance. Mesasal, Salofalk: 15-20mg/kg (adult 500mg) 8H, decr to 10mg/kg (adult 250mg) 8H oral. Adult, NOT/kg: 0.4-1.6g 8H (Asacol, Coltec); 0.5-1g 6H (Pentasa); slow-release 1.5g (Apriso) 2.4-4.8g (Lialda) daily oral. Suppos: 0.5-1g 8H. Enema: 1-4g nocte.

Mesna. IV over 30min: 20% of cyclophosphamide or ifosfamide dose at 0, 4 and 6 hr. Oral: 40% of dose of cytotoxic at -2, 2 and 6hr. Nebuliser: 0.6-1.2g (NOT/kg) 4-6H.

Mesoridazine. Oral: 0.25-3mg/kg (adult 25-150mg) 8H. IM: 0.5mg/kg (adult 25mg, max 200mg/day).

Mesterolone. 0.5mg/kg (adult 25mg) 6-12H oral.

Mestranol 50mcg + norethisterone 1mg. Contraception: 1 tab daily from 5th to 25th day of menstrual cycle.

Metaproterenol. See orciprenaline.

Metaraminol. IV: 0.01mg/kg stat (repeat prn), then 0.15 mg/kg in 50ml 5% dextrose (no heparin) at 1-10ml/hr (0.05-0.5mcg/kg/min) and titrate dose against BP. SC: 0.1mg/kg.

Metaxalone. 15mg/kg (max 800mg) 6-8H oral.

Metformin. NOT/kg: 250mg (8-10yr) 500mg (>10yr) daily oral; incr slowly 1-2wkly to max 1g 8H. See also alogliptin, canagliflozin, dapagliflozin, empagliflozin, glibenclamide.

Metformin + rosiglitazone. 500/2, 1000/2 or 1000/4mg tab. Adult: 1000/2 (1000/4 after 8wk if reqd) 1 tab 12H oral.

Metformin + saxagliptin. 500/5, 1000/5 or 1000/2.5mg extended-release tab. Adult, NOT/kg: 1 tab daily oral.

Metformin + sitagliptin. 500/50 or 1000/50mg cap. 1-2 cap 12H (max 2000mg/100mg per day) oral.

Metformin + vildagliptin. 50/850mg or (if tolerated) 50/1000 12H oral.

Methacycline. NOT/kg: 150mg (>8y) 300mg (>12y) 12H oral.

Methadone. 0.1-0.2mg/kg (adult 5-10mg) 6-12H oral, SC, IM.

Methamphetamine. See methylamphetamine.

Methazolamide. 1-2mg/kg (adult 50-100mg) 8-12H oral.

Methdilazine. 0.1-0.3mg/kg (adult 4-16mg) 12-24H oral.

Methenamine hippurate or mandelate. See hexamine.

Methenolone. Adult, NOT/kg. Oral: 5-10mg 12H. IM: 100mg every 1-2wk or 200mg every 2-3wk (carcinoma); 50-100mg every 2wk, then every 3-4wk (osteopor).

Methimazole. 0.3-1mg/kg (adult 20-60mg) daily oral, reducing to 0.1-0.5mg/kg (adult 5-30mg) daily.

Methionine. 50mg/kg (max 2.5g) oral 4H for 4 doses. Prophylaxis: 1mg to paracetamol 5mg.

Methocarbamol. Oral: 30mg/kg (adult 1.5g) 6H for 3 days, then 15-20mg/kg (adult 0.75-1g) 6-8H. IV over 5-10 min or IM: 15mg/kg (adult 750mg) 6H.

Methohexital. See methohexitone.

Methohexitone. 1-2mg/kg (adult 50-120mg) slow IV.

Methoin. 1mg/kg (adult 50mg) daily oral, may incr by 1mg/kg each wk to max 10mg/kg (adult 600mg) daily.

Methotrexate. Leukaemia: typically 3.3mg/m² IV daily for 4-

- 6wk; then 2.5mg/kg IV every 2wk, or 30mg/m² oral or IM x2/wk; higher doses with folinic acid rescue. Intrathecal: 12 mg/m² wkly for 2wk, then monthly. Arthritis, psoriasis, Crohn: 15mg/m² (max 25mg) wkly oral, IV, IM or SC until response, then reduce.
- Methotrimeprazine.** 0.25-1mg/kg (adult 12.5-50mg) 6-8H oral, IM or IV. Up to 1g/day in severe psychosis.
- Methoxamine.** 0.1-0.4mg/kg (adult 5-20mg) IM, or 0.1-0.2 mg/kg (adult 5-10mg) IV over 5-10min (at least 15min between doses). Nose drop 0.25%: 1-3drop/nostril 6-12H.
- Methoxsalen.** Adult, NOT/kg: 20mg 2hr before UV exposure. 1% lotion: wkly before 1min of UV light.
- Methoxyflurane.** Adult: 0.2-0.7% max 6ml/day or 15ml/wk.
- Methoxy polyethylene glycol-epoetin beta.** See epoetin.
- Methoxypsoralen.** See methoxsalen.
- Methscopolamine.** See hyoscine methobromide.
- Methsuximide.** 5mg/kg (adult 300mg) daily, may incr to max 10mg/kg (adult 400mg) 8-12H oral.
- Methyclothiazide.** 0.05-0.2mg/kg (adult 2.5-10mg) daily oral.
- Methyl aminolevulinate.** See aminolevulinic acid.
- Methylcellulose.** Constipation: 30-60mg/kg (adult 1.5-3g) with at least 10ml/kg (adult 300ml) fluid 12H oral. Obesity: 30mg/kg (adult 1.5g) with 5ml/kg water ½hr before a meal.
- Methylcysteine.** 4mg/kg (adult 200mg) 6-12H oral.
- Methyldopa.** 3mg/kg (adult 150mg) 8H oral, may incr to max 15mg/kg/dose (adult 750mg).
- Methyldopate.** 5-20mg/kg (adult 0.25-1g) 6H IV over 1hr.
- Methylene blue.** 1-2mg/kg (G6PD deficiency 0.4mg/kg) IV prn. Septic shock: 2mg/kg stat IV, then 0.25-2mg/kg/hr.
- Methylergometrine.** Adult, NOT/kg: 200mcg IM, IV over 5min, or oral; may repeat in 2hr, then 4-6H.
- Methylergonovine.** See methylergometrine.
- Methylnatrexone.** 0.15mg/kg (max 12mg) 48H SC.
- Methylphenidate.** 5mg (<12yr) 10mg (>12yr) oral 8am, noon and (occasionally) 4pm; incr wkly if reqd to max 0.4mg/kg per dose (adult 20mg). Long acting (NOT/kg): child 10-60mg (adult 10-80mg) in morning. Transdermal patch: apply for up to 9hr; start with 12.5cm², and incr to 18.75cm², 25cm², and 37.5cm² if reqd.
- Methylphenobarbitone.** 4-12mg/kg (adult 200-600mg) daily.
- Methylprednisolone.** Asthma: 0.5-1mg/kg 6H oral, IV or IM day 1, 12H day 2, then 1mg/kg daily, reducing to minimum effective dose. Severe croup: 4mg/kg IV stat, then 1mg/kg 8H. Pulse therapy: 500mg/m² (max 1g) IV daily for 3 days; several wkly pulses may be reqd. Lotion 0.25%: apply sparingly 12-24H. Methylpred 1mg = hydrocort 5mg in glucocorticoid activity, 0.5mg in mineralocorticoid.
- Methylprednisolone aceponate.** 0.1% cream, ointment: apply 12-24H.
- Methyltestosterone.** NOT/kg: 2.5-12.5mg/day buccal.

Methylthioninium chloride. 0.5-0.5mg/kg (<3mo) 1-2mg/kg (>3mo) IV over 5min, repeat after 1hr if reqd.

Methysergide. 0.02mg/kg (adult 1mg) 12H oral, incr if reqd to max 0.04mg/kg (adult 2mg) 8H for 3-6mo.

Metipranolol. 0.1%, 0.3%, adult: 1 drop/eye 12H.

Metirosine. 5-20mg/kg (adult 0.25-1g) 6H oral.

Metoclopramide. 0.1-0.3mg/kg (adult 10-15mg) 8H IV, IM, oral; 0.2-0.4mg/kg (adult 10-20mg) 8H PR. Periop: 0.5 mg/kg (adult 15-20mg) IV stat, then 0.2mg/kg (adult 10mg) 4-6H if reqd. With chemotherapy: up to 1-2mg/kg 4H IV.

Metocurine iodide. ICU: 0.4mg/kg IV prn. Theatre: 0.1-0.4 mg/kg stat, then 0.01-0.02mg/kg/dose.

Metolazone. 0.1-0.2mg/kg (adult 5-10mg) daily oral. Up to 0.5mg/kg (adult 30mg) daily short term.

Metoprolol. IV: 0.1mg/kg (adult 5mg) over 5 min, repeat every 5 min to max 3 doses, then 1-5mcg/kg/min. Oral: 1-2mg/kg (adult 50-100mg) 6-12H.

Metreleptin. 0.06mg/kg (max 5mg) SC daily, incr if reqd to 0.13mg/kg (max 10mg) daily.

Metronidazole. Avoid alcohol. 15mg/kg (max 1g) stat, then 7.5mg/kg (max 1g) 12H in neonate (1st maintenance dose 48hr after load if <2kg, 24hr in term baby), 8H (4+ wk) IV, PR or oral. Giardiasis: 30mg/kg (adult 2g) daily x3 oral. Amoebiasis: 15mg/kg (adult 750-800mg) 8H oral x10 days, follow with paromycin. 10mg/kg (adult 500mg) 8H oral x10 days. C.difficile: 10 mg/kg (adult 500mg) 8H oral. Topical gel 0.5%: apply daily. Level 60-300umol/ml (x0.17mcg/ml).

Metyrapone. Diagnosis: 15mg/kg (minimum 250mg) 4H x6 dose oral. Cushing: 1-20mg/kg (max 1g) 4H.

Metyrosine. See metirosine.

Mexiletine. IV infsn: 2-5mg/kg (max 250mg) over 15 min, then 5-20mcg/kg/min (max 250mg/hr). Oral: 8mg/kg (max 400mg) stat, then 4-8mg/kg (max 400mg) 8H starting 2hr after load.

Mezlocillin. 50mg/kg 6-8H (1st wk life), 4-6H (2+ wk) IM or IV. Serious infn: 60mg/kg (max 3g) 4H.

Mianserin. 0.2-0.5mg/kg (adult 10-40mg) 8H oral.

Micafungin. IV over 1hr. Infant 10mg/kg, child 8mg/kg, adult 50-150mg daily. Proph: 1mg/kg (adult 50mg) daily.

Miconazole. Topical: 2% cream, powder, lotion, tincture or gel 12-24H. Vaginal: 2% cream or 100mg ovule daily x7. Oral candida (NOT/kg): buccal tab 50mg apply to gum above upper incisor on alternate sides daily x14.

Microlax, Micolette enema. See saline laxatives.

Midazolam. Sedation: usually 0.1-0.2mg/kg (adult 5mg) IV or IM, up to 0.5mg/kg used in children; 0.2mg/kg (repeated in 10min if reqd) nasal; 0.5 mg/kg (max 20mg) oral. Infusion (ventild): 3mg/kg in 50ml at 1-4ml/hr (1-4mcg/kg /min); fitting usually 2-4 ml/hr (range 1-24ml/hr). 1mg = 2-3mg diazepam.

Midodrine. 0.06mg/kg (adult 3mg) morning and 4-6pm oral, incr slowly if reqd to max 0.2-0.4mg/kg (adult 10-20mg)

morning, noon and 4-6pm. Beware supine hypertension.
Mifamurtide. 2mg/m² IV x2/wk for 12wk, then wkly for 24wk.
Mifepristone. Adult, NOT/kg. Termination: 200mg oral once, then in 24-48hr misoprostol 800mcg buccal or 400mcg oral. Cushing's syndrome: 300mg daily oral with meal, incr every 2wk if reqd to max 1200mg daily.
Miglitol. Adult, NOT/kg: 25mg 8-24H incr over 3-6mo to usual maintenance dose of 50mg (max 100mg) 8H oral.
Miglustat. ⅓ dose wk1, ⅓ dose wk2, then 110mg/m² (adult 200mg) 8H oral if tolerated.
Milnacipran. 0.25mg/kg (adult 12.5mg) daily oral incr over 7 days to 1mg/kg (adult 50mg) 12H.
Milrinone. <30kg: 1.5mg/kg in 50ml, 2.5ml over 1hr (75 mcg/kg), then 1-1.5 ml/hr (0.5-0.75mcg/kg/min). >30kg: 1.5 mg/kg made up to 100ml, 5ml over 1hr (75mcg/kg), then 2-3 ml/hr (0.5-0.75mcg/kg/min). T½ 2-3hr.
Miltefosine. Male 80mg/m² (max 50mg), female 70mg/m² (max 50mg) divided into 3 doses per day oral.
Mineral mixture (Aminogram). <5.5kg: 1.5g/kg daily oral, mixed with feed. >5.5kg: 8g daily (NOT/kg).
Mineral oil. See paraffin liquid.
Minocycline. Over 8yr: 4mg/kg (max 200mg) stat, then 2mg/kg (max 100mg) 12H oral or IV over 1hr. Sustained release tabs (NOT/kg): 45mg (45-59kg), 90mg (60-89kg), 135mg (90kg or more) daily oral. Acne (NOT/kg): 50mg 12H or 100mg daily oral.
Minoxidil. 0.1mg/kg (max 5mg) daily, incr to max 0.5mg/kg (max 25mg) 12-24H oral. Baldness: 2% soltn (male and female) 5% soltn (males only) 1ml 12H to dry scalp.
Mipomersen. 4mg/kg (adult 200mg) SC weekly.
Mirabegron. Adult, NOT/kg: 25-100mg daily oral.
Mirtazapine. 0.3-1mg/kg (adult 15-60mg) daily oral.
Misoprostol (PGE1 analogue). 5mcg/kg (max 200mcg) 4-6H oral. 1st trimester spont abortion: 800mcg vaginal, repeat in 24-72hr if tissue passage incomplete. See also mifepristone.
Mitomycin-C. 2mg/m² IV daily x10 days, repeat only if leucocytes >3000/mm³ + platelets >75,000.
Mitotane. 10-80mg/kg (adult 0.5-4g) 6H oral.
Mitoxantrone. See mitozantrone.
Mitozantrone. Breast cancer or lymphoma: 10-14mg/m² IV over 10min every 3wk. Leukaemia: 10-12mg/m² IV over 10min daily for 3-5 days. MS: 12mg/m² IV every 3mo.
Mivacurium. 0.15mg/kg stat, then 0.1mg/kg/dose IV. Infsn: 5-15mcg/kg/min.
Mizolastine. Adult, NOT/kg: slow rel tab, 10mg daily oral.
Moclobemide. 2-3mg/kg (adult 50-150mg) 6-12H oral.
Modafinil. 2-4mg/kg (adult 100-200mg) 12H oral. Adult, NOT/kg: 200mg morning (obs sleep apnoea), 1hr before shift (night work sleep disorder) oral.
Moexipril. 0.15-0.2mg/kg (adult 7.5-10mg) 8-24H oral.

Molgramostim. 5-10mcg/kg daily SC or IV over 6hr.

Molindone. 0.1-1.5mg/kg (adult 50-75mg) 8H oral.

Mometasone. 50mcg spray: 1spray/nostril (2-12yr) 2spray/nostril (>12yr) daily. 0.1% cream or oint: apply daily.

Montelukast. NOT/kg: 4mg (1-5yr) 5mg (6-14yr) 10mg (>14yr) daily at bedtime, oral. 2hr before exercise: 5mg (6-15yr) 10mg (>15yr) oral, max 1 dose daily.

Moracizine. 4-6mg/kg (adult 200-300mg) 8H oral.

Moricizine. See moracizine.

Moroctogog alfa. Recombinant human factor 8; see factor 8.

Morphine. Half life 2-4 hr. IM: neonate 0.1mg/kg, child 0.1-0.2 mg/kg, adult 10-20mg; half this IV over 10 min. IV (ventltd): 0.1-0.2mg/kg/dose (adult 5-10mg). Infsn of 1mg/kg in 50ml: ventltd neonate 0.5-1.5 ml/hr (10-30mcg/kg/hr), child or adult 1-4ml/hr (20-80mcg/kg/hr). Patient controlled: 20mcg/kg boluses (1ml of 1mg/kg in 50ml) with 5min lockout time + (in child) 5mcg/kg/hr. Oral double IM dose; slow release: start with 0.6mg/kg 12H and incr every 48hr if reqd.

Morphine + cyclizine. 10mg/50mg or 15/50. Adult, NOT/kg: 10-20mg morphine SC,IM,IV max 4hrly; max 3 doses/day.

Morphine + naltrexone. 20mg/0.8mg, 30/1.2, 50/2, 60/2.4, 80/3.2 or 100/4 cap. 1 cap 12-24H oral.

Morrhuate sodium. Adult, NOT/kg: 50-250mg per injtn.

Moxifloxacin. 20mg/kg (max 400mg) daily oral or IV. 0.5% ophthalmic: 1 drop/eye 8H for 7 days.

Moxislyte. Adult, NOT/kg: 40-80mg 6H oral.

Moxonidine. 4mcg/kg (adult 200mcg) 8-24H oral.

Mumps vaccine (Mumpsvax). Live. >12mo: 0.5ml SC once. See also measles + mumps + rubella vaccine.

Mupirocin. 2% ointment: apply 8-12H.

Muromonab-CD3 (Orthoclone OKT3). 0.1mg/kg (adult 5mg) daily for 10-14 days IV over 1min.

Mustine HCl (nitrogen mustard). 0.1mg/kg IV daily for 3-4 days. Hodgkins: 6mg/m² IV day 1,8 of 14 day cycle with 14 days rest. Gel 0.016%: apply daily.

Mycophenolic acid. 400mg/m² (max 720mg) 12H oral.

Mycophenolate mofetil. 12H oral or IV over 2hr: 400mg/m² (max 1g) + tachrolimus, 600mg/m² (max 1g) + cyclosporin.

Mycophenolate sodium. 720mg = 1g mofetil. With cyclosporin: 400-450mg/m² (max 720mg) 12H oral.

Nabilone. Adult, NOT/kg: 1mg 12H, up to 2mg 8H oral.

Nabiximols. THC/CBD 27/25mg/ml. Adult, NOT/kg: 1 oral spray daily, incr over 2wk to max x5 morning + x7 evening.

Nabumetone. 10-20mg/kg (adult 0.5-1g) 12-24H oral.

Nadolol. 1-5mg/kg (adult 40-240mg) daily oral.

Nadroparin. Venous thrombosis: 90anti-XaU/kg 12H SC. Prophylaxis: genrl surgery 2850anti-XaU (adult, NOT/kg) daily SC; orthopaedics 40anti-XaU/kg 24H (start 12hr pre-surgery) SC, then 55anti-XaU/kg daily. Haemodialysis: 65anti-XaU/kg into arterial line at start 4hr session.

Nafarelin. Adult, NOT/kg: 200mcg spray to 1 nostril 12H.

Nafcillin. Oral: 15-30mg/kg 6H. Severe infn (slow IV, IM): 40mg/kg (max 2g) 12H (1st wk life), 8H (2nd wk), 6H or constant infsn (>2wk).

Naftidrofuryl. 2-4mg/kg (adult 100-200mg) 8H (oral) or 12H (IM, or IV or IA infsn over 2hr).

Naftifine. 1% cream, gel: apply daily.

Nalbuphine. 0.2-0.5mg/kg (adult 20-30mg) 3-6H SC, IM or IV. Anaesthesia: 0.3-1mg/kg IV over 15min, then 0.2-0.5mg/kg every 30min.

Nalidixic acid. 15mg/kg (adult 1g) 6H oral, reducing to 7.5mg/kg (adult 500mg) 6H after 2wk.

Nalmefene. Opiate intoxication: 0.007mg/kg IV, and 0.0014 mg/kg after 2-5min (15min if IM, SC) if reqd. Postop sedtn: 0.25mcg/kg every 2-5min (max 4 doses). Half life 10hr.

Naloxegol. Adult, NOT/kg: 12.5-25mg daily oral.

Naloxone. Postop sedatn: 0.002mg/kg/dose (0.4mg diluted to 20ml, give 0.1ml/kg/dose) repeat every 2min x4 if reqd, then 0.3mg/kg in 30ml at 1ml/hr (0.01mg/kg/hr) IV. Opiate overdose (including newborn): 0.01mg/kg (adult 0.4mg) (0.4mg diluted to 10ml, give 0.25ml/kg/dose), repeated every 2min IV (15min if IM or SC) x4 if reqd, then 0.3mg/kg in 30ml at 1 ml/hr (0.01mg/kg/hr) IV; intranasal (NOT/kg) 1mg mist per nostril, or 4mg in one nostril, repeated if reqd after 3-5 min.

Naltrexone. 0.5mg/kg (adult 25mg), then 1mg/kg (adult 50mg) daily oral. Adult, NOT/kg slow-rel: 380mg every 4wk IM.

Nandrolone decanoate. Anaemia: 1-4mg/kg (adult 50-200mg) wkly deep IM. Osteoporosis: Adult, NOT/kg 50mg deep IM every 3wk.

Naphazoline. 0.012-0.1%: 1-2drop/nostril, 1drop/eye 3-4H.

Naproxen. 1mg = 1.1mg naproxen sodium. >1mo: 5-10mg/kg (adult 250-500mg) 8-12H oral. Adult: 500mg 12H PR.

Naproxen + esomeprazole. See esomeprazole + naproxen.

Naproxen 500mg + sumatriptan 85mg. Adult, NOT/kg: 1 tab oral, may repeat after 2 hours (max 2 tab per day).

Naratriptan. 0.05mg/kg (adult 2.5mg), repeat after 4hr if reqd.

Natalizumab. Adult, NOT/kg: 300mg IV over 1hr every 4wk.

Natamycin. 5%: 1 drop in eye x6-8/day for 14-21 days.

Nateglinide. Adult, NOT/kg: 60-120mg 8H oral.

Nebivololol. 0.1mg/kg (adult 5mg) daily oral, incr to max 1mg/kg (adult 40mg) daily.

Nebivol 5mg + valsartan 80mg. Adult, NOT/kg: 1 tab daily.

Nedocromil. Inhln: 4mg (2 puffs) 6H, reducing to 12H when improved. 2% eye drops: 1 drop/eye 6-24H.

Nefazodone. 1mg/kg (adult 50 mg) 12H oral, incr by 1mg/kg per dose (adult 50mg) each wk to 4-6mg/kg (adult 200-300 mg) 12H. Slow release: daily dose.

Nefopam. Oral: 0.5-2mg/kg (adult 30-90mg) 8H. IM: 0.4mg/kg (adult 20mg), may repeat in 6hr.

Neisseria meningitidis vaccine. See meningococcal vacc.

Nelarabine. Child: 650mg/m² IV over 1hr daily for 5 days; repeated every 21 days. Adult: 1500mg/m² IV over 2hr on days 1, 3 and 5; repeated every 21 days.

Nelfinavir (NFV). 45-55mg/kg (adult 1250mg) 12H oral, or 25-35mg/kg (adult 750mg) 8H. M8 metabolite trough ≥800ng/ml.

Neomycin. 1g/m² 4-6H oral (max 12g/day). Bladder washout: 40-2000mg/L. See also colistin; dexamethasone; gramicidin.

Neomycin 0.5% + prednisolone sodium phosphate 0.5%. 1drop/eye 4-6H.

Neostigmine. Reverse relaxants: 0.05-0.07mg/kg (adult 0.5-2.5mg) IV; suggested dilution: neostigmine (2.5mg/ml) 0.5ml + atropine (0.6mg/ml) 0.5ml + saline 0.5ml, give 0.1ml/kg IV. Myasth gravis (NOT/kg): neonate 0.05-0.25mg, child 0.2-0.5mg, adult 1-2.5mg 2-4H IM, SC.

Nepafenac. 1mg/ml (NOT/kg): 1 drop/eye 8H.

Nesiritide. 2mcg/kg IV, then 0.01mcg/kg/min (range 0.005-0.03mcg/kg/min).

Netilmicin. IV or IM. 1wk-10yr: 8mg/kg day 1, then 6mg/kg daily. >10yr: 7mg/kg day 1, then 5mg/kg (max 240-360mg) daily. Neonate, 5mg/kg dose: <1200g 48H (0-7 days of life), 36H (8-30 days), 24H (>30 days); 1200-2500g 36H (0-7 days of life), 24H (>7 days); term 24H (0-7 days of life), then as for 1wk-10yr. Trough level <1.0mg/L.

Netupitant 300mg + palonosetron 0.5mg. 1 cap 1hr pre-chemo; + dexamethasone 12mg day1 ± 8mg days 2-4 oral.

Nevirapine (NVP). <8yr: 200mg/m² (max 200mg) daily oral for 2wk, then 12H if no rash; ≥8yr: 120-150mg/m² (max 200mg) daily for 2wk, then 12H if no rash. Min trough 3000 ng/ml.

Niacin. Adult, NOT/kg: 1.5-2.0g daily oral.

Niacin + lovastatin. See lovastatin + niacin.

Niacin + simvastatin. 500mg/20mg, 750/20 or 1000/20 slow-rel tab. Adult, NOT/kg: 500mg/20mg at bedtime oral, incr by 500mg every 4wk to max 2000/40mg.

Niacinamide. Gel, cream: apply 12H.

Nicardipine. 0.4-0.8mg/kg (adult 20-40mg) 8H oral. 1-3mcg/kg/min (max 20mg/hr) IV.

Niclosamide. 50mg/kg (adult 2g) oral.

Nicorandil. 0.1-0.6mg/kg (adult 5-30mg) 12H oral.

Nicotinamide. 4% gel: apply sparingly 12-24H

Nicotine. ≥12yr (NOT/kg). Gum 2-4mg: chewed over 30min if inclined to smoke; usually 16-24mg/day, max 60mg/day. Lozenge 2mg, 4mg: 8-12/day oral, max 15/day. Subling tab 2mg: 1-2/hr, max 40/day. Oral spray 1mg: max 64/day, reduce over 3mo. Inhaler 10-15mg cartridges: 10mg max 12/day, 15mg max 6/day for 3mo, then reduce over 6-8wk. Nasal 500mcg/spray: 1/nostril prn max 64/day for 8wk, reducing over max 3mo. Transdermal patch 7mg, 10, 14, 15, 21: if smoked >20cig/day apply strongest patch daily 3-4wk, medium patch daily 3-4wk (initial dose if smoked ≤20cig/day), weakest patch daily 3-4wk.

Nicotinic acid. Hypercholesterolaemia and hypertriglyceridaemia: 5mg/kg (adult 200mg) 8H, gradually incr to 20-30 mg/kg (adult 1-2g) 8H oral. See also laropiprant.

Nicotinyl alcohol tartrate. Adult, NOT/kg: 25-50mg 6H, slow release tab 150-300mg 12H oral.

Nicoumalone. 0.2mg/kg (adult 10mg) day 1, 0.12mg/kg (adult 6mg) day 2, then 0.02-0.25mg/kg (adult 1-12mg) daily oral. INR 2-2.5 for prophylaxis, 2-3 for treatment.

Nifedipine. Caps 0.25-0.5mg/kg (adult 10mg) 12H, tabs 0.5 mg/kg (adult 20mg) 12H oral or sublingual; incr gradually if reqd to max 1mg/kg (max 40mg) 8H oral.

Nilotinib. Adult, NOT/kg: 400mg 12H oral.

Nilutamide. Adult, NOT/kg: 300mg daily oral for 4wk, then 150mg daily.

Nimodipine. 10-15mcg/kg/hr (adult 1mg/hr) IV for 2hr, then 10-45mcg/kg/hr (adult 2 mg/hr). Adult: 60mg 4H oral.

Nintedanib. Adult, NOT/kg: 150mg 12H with food oral.

Nisoldipine. Slow release: 0.2 mg/kg (adult 10mg) daily oral, incr to 0.4-0.8mg/kg (adult 20-40mg) daily.

Nitazoxanide. 100mg (12-47mo) 200mg (4-11yr) 500mg (>11yr) 12H for 3 days oral.

Nitisinone. 0.5mg/kg incr after 1mo to 0.75mg/kg (max 1mg/kg) 12H oral.

Nitrazepam. Child epilepsy: 0.125-0.5mg/kg 12H oral. Hypnotic (NOT/kg): 2.5-5mg (child) 5-10mg (adult) nocte.

Nitric oxide. 1-40ppm (up to 80ppm used occasionally). 0.1 l/min of 1000ppm added to 10 l/min gas gives 10ppm. $[NO] = \text{Cylinder } [NO] \times (1 - (\text{Patient } FiO_2 / \text{Supply } FiO_2))$. $[NO] = \text{Cylinder } [NO] \times NO \text{ flow} / \text{Total flow}$.

Nitrofurantoin. 1.5mg/kg (adult 50-100mg) 6H oral. Prophylaxis: 1-2mg/kg (adult 50-100mg) at night.

Nitrofurazone. 0.2% cream, soltn: apply every 1-3 days.

Nitrogen mustard. See mustine HCl.

Nitroglycerine. See glyceryl trinitrate.

Nitroprusside. See sodium nitroprusside.

Nivolumab. 3mg/kg IV every 2wk. See ipilimumab.

Nizatidine. 3-5mg/kg (adult 150mg) 12H oral for max 8wk, then daily. H pylori (adult): 300mg 12-24H.

Nomegestrol + oestradiol. 2.5mg/1.5mg x24 + inert x4-7 tab. Contraception: 1 tab daily, starting 1st day menstruation.

Nonacog alfa, gamma. Recomb human factor 9, see factor 9.

Nonoxynol-9. 2% (Ortho), 5% (Delfen) cream: 1 applicatorful just before intercourse. 12.5% (Delfen) foam: 1 applicatorful <60min before intercourse.

Noradrenaline. Flows <2ml/hr may cause swings in blood pressure. CVC: for 0.02-0.2mcg/kg/min put 0.06mg/kg in 50 ml 5%D at 1-10ml/hr; for 0.1-0.5mcg/kg/min put 0.15mg/kg in 50ml 5%D at 2-10ml/hr. Periph IV (short-term): 0.15mg/kg in 500ml at 10-20ml/hr (0.05-0.1mcg/kg/min). T½ 1-2min.

Norelgestromin. See ethinyloestradiol + norelgestromin.

Norepinephrine. See noradrenaline.

Norethindrone. See norethisterone.

Norethisterone. Contraception: 350mcg daily, starting 1st day of menstruation; or 200mg oily soltn IM in 1st 5 days of cycle, repeated once after 8wk. Menorrhagia: 10mg 3H until hge stops, then 5mg 6H for 1wk, then 5mg 8H for 2wk; or 5mg 8-12H on days 19-26 of cycle. See also ethinyloestradiol, mestranol, and oestradiol with norethisterone.

Norethisterone + oestradiol patches. Post-menop, NOT/kg: none/4mg (50mcg/24hr) patch x2/wk for 2wk, then 30mg/10mg (170/50 or 250/50mcg per 24hr) patch x2/wk for 2wk; 0.14mg/0.05mg or 0.14/0.25 per day patch: 1 patch x2/wk.

Norethisterone + oestradiol. 0.1/0.5mg, 0.5/1, 0.7/2, 1/2 tab. Post-menopause (NOT/kg): 1 tab daily.

Norfloxacin. 10mg/kg (adult 400mg) 12H oral.

Norgestimate. See ethinyloestradiol + norgestimate.

Norgestrel. See levonorgestrel.

Normacol granules. 6mo-5yr half teasp 12H, 6-10yr 1 teasp 12H, >10yr 1 teasp 8H.

Nortriptyline. 0.5-1.5mg/kg (adult 25-75mg) 8H oral.

Noscapine. NOT/kg: 7.5mg (1-6yr) 15mg (6-12yr) 15-30mg (adult) 6-8H oral.

Noxythiolin. 1-2.5% soltn into body cavity 12-24H, left at least 30min. Max daily dose 200mg/kg (max 10g).

NTBC (nitro-trifluoromethylbenzoyl cyclohexanedione). 0.5mg/kg 12H oral.

Nystatin. <12mo 100,000u, >12mo 500,000u (1 tab) 6H NG or oral. Prophylaxis <12mo 50,000u, >12mo, 250,000u 8H. Topical: 100,000u/g gel, cream or ointment 12H. Vaginal: 100,000u 12-24H. See also gramicidin + neomycin + nystatin + triamcinolone cream and ointment.

Obidoxime. 4mg/kg (adult 250mg) slow IV, then 0.6mg/kg/hr (adult 30mg/hr). See also atropine.

Obinutuzumab. Adult, NOT/kg. Cycle 1: 100mg IV day 1, 900mg day 2, 1g day 8,15. Cycle 2-6: 1g IV day 1.

Ocriplasmin. NOT/kg: 0.125mg intravitreal into one eye; wait at least 1wk if other eye requires treatment.

Octocog alfa (recombinant factor 8). See factor 8.

Octoxinol (octoxynol). 1% jelly (Ortho-Gynol): 1 teaspoonful on diaphragm before intercourse.

Octreotide. Diarrhoea: 1mcg/kg (adult 50mcg) 12-24H SC, may incr to 10mcg/kg (adult 250mcg) 8H. IV: 1mcg/kg stat, then 1-5mcg/kg/hr. Chyle: 5mcg/kg/hr IV. Acromegaly (NOT/kg): 0.05-0.1mg 8-12H SC incr if reqd to max 0.5mg 8H for 4wk, then slow release 20mg (10-30mg) every 4wk deep IM.

17-beta-Oestradiol. 2mg vaginal ring, replace every 3mo.

Oestradiol. NOT/kg. Post-menopausal (add a progestogen for 14 days/mo if uterus intact): tab 1-2mg/day oral; patch 0.1% (release 25, 37.5, 40, 50, 75, 80, 100mcg/day) to thigh x1-2/wk; metered-dose pump (0.52mg/dose of 0.06%; 1.53

mg/dose of 1.7%) 1-3 doses/day to arm; vaginal tab 25mcg: 1 tab daily for 2wk, then 1 tab x2/wk. Osteoporosis: every wk apply a patch releasing 12.5mcg/day. Induction puberty: 0.5mg alternate days oral, incr over 2-3yr to 2mg/day (add progestogen for 14 days/mo when dose 1.5mg/day or when bleeding occurs). Tall stature: 12mg/day oral until bone age >16yr (add progestogen for 14 days/cycle). Gonadal failure: 2mg/day oral (add progestogen for 14 days/cycle). See also bazedoxifene, dienogest, dydrogesterone, levonorgestrel, medroxyprogesterone, and norethisterone with oestradiol.

Oestradiol patch, and oestradiol + norethisterone patch.
Post-menopausal (NOT/kg): oestradiol patch (50mcg/24hr) x2/wk for 2wk, then oestradiol + norethisterone patch (50/170 or 50/250 mcg/24hr) x2/wk for 2wk.

Oestradiol patch, and oestradiol + levonorgestrel patch.
Post-menopausal (NOT/kg): oestradiol patch (50mcg/24hr) x1/wk for 2wk, then oestradiol + levonorgestrel patch (50/10 mcg/24hr) x1/wk for 2wk.

Oestradiol 0.6mg + oestriol 0.27mg + oestrone 1.4mg.
Post-menopausal (NOT/kg): 1-2 tab daily oral. Add a progestogen for 14 days/mo if uterus intact.

Oestradiol 1mg (x11 tab), oestradiol + levonorgestrel 1mg/0.25mg or 2mg/0.5mg (x10 tabs). Post-menopausal (NOT/kg): 1 tab daily oral for 21 days, then no tab 7 days.

Oestradiol 1mg (x16 tab), oestradiol 1mg + norethisterone 1mg (x12 tab). Post-menopausal (NOT/kg): 1 tab daily oral.

Oestradiol 2mg (x11 tab), oestradiol 2mg + cyproterone 1mg (x10 tab). Post-menopausal (NOT/kg): 1 tab daily for 21 days (start 5th day of menstruation), then 7 days no tab.

Oestradiol 2mg (x16 tab), oestradiol 2mg + levonorgestrel 0.75mg (x12 tabs). Postmenopausal (NOT/kg): 1 tab daily.

Oestradiol 2mg (x16 tab), oestradiol 2mg + norethisterone 1-2mg (x12 tab). Post-menopausal (NOT/kg): 1 tab daily.

Oestradiol 2mg (x70 tab), oestradiol 2mg + medroxyprogesterone 20mg (x14 tab), placebo (x7 tab). Postmenopausal (NOT/kg): 1 tab daily oral.

Oestradiol 2mg or 4mg (x12 tab), oestradiol 1mg (x6 tab), oestradiol + norethisterone 2mg/1mg or 4mg/1mg (x10 tab). Post-menopausal (NOT/kg): 1 tab daily oral.

Oestriol. Inductn puberty: 0.25 mg/day incr to 2mg/day (+ progestogen 12days/cycle) oral. Epiphyseal maturation: 10 mg/day (+ progestogen 12days/cycle). Vaginal: 0.5mg daily, reducing to x2/wk. Patch (Menorest) 37.5 (3.28mg), 50 (4.33mg), 75 (6.57mg), 100 (8.66mg): apply 1 patch x2/wk (adjust dose monthly), with medroxyprogesterone acetate (if uterus intact) 10mg x10 days/mo.

Oestrogen. See ethinyloestradiol.

Oestrone. Adult, NOT/kg. Menopause: oral 0.625-5mg daily; vaginal 0.1-1mg daily, decr to 1mg x2-3/wk. Hypogonadism: 1.25-7.5mg daily oral.

Oestropipate. Adult, NOT/kg: 0.625-7.5mg daily starting 1st day menstruation, for 3 of every 4wk oral. Menopause: 1.5-3mg daily oral. Intravaginal: 2-4g cream daily.

Ofatumumab. Adult, NOT/kg: 300mg IV, then 2g wkly for 7wk, then 2g every 4wk.

Ofloxacin. 5mg/kg (adult 200mg) 8-12H, or 10mg/kg (adult 400mg) 12H oral or IV over 1hr. 0.3%: 1drop/eye hrly for 2 days (4H overnight), reducing to 3-6H.

OKT3. See muromonab-CD3.

Olanzapine. 0.1-0.2mg/kg (adult 5-10mg) daily oral; slow incr to 0.4mg/kg (adult 20mg) daily if reqd. See also fluoxetine.

Olmesartan. 0.3mg/kg (max 10mg) daily oral; if reqd incr 2wkly to max 0.8mg/kg (max 40mg) daily oral. See also amlodipine + olmesartan.

Olodaterol. NOT/kg: 2.5mcg inhaled once daily.

Olodaterol + tiotropium. NOT/kg: 2.5/2.5mcg inhaled daily.

Olopatadine. 0.1-0.2% soltn: 1 drop/eye twice a day. 0.6% soltn: 1-2 sprays/nostril 12H.

Olpadronate. 0.5mg/kg daily oral.

Olaparib. Adult, NOT/kg: 400mg 12H oral.

Olsalazine. NOT/kg: 250mg 12H, incr to max 500mg 6H oral. Maintenance: 500mg 12H.

Omacetaxine. 1.25mg/m² 12H SC day1-14 of 28 day cycle until remission, then day1-7 of 28 day cycle.

Omalizumab. ≥6yr (NOT/kg) 150-375mg SC every 2-4wk depending on body weight and serum IgE level.

Ombitasvir 12.5mg + paritaprevir 75mg + ritonavir 50mg. Adult, NOT/kg: 2 tab daily ± dasabuvir 250mg 12H ± ribavirin 500mg (>75kg 600mg) 12H oral for 12-14wk. See dasabuvir.

Omega-3-acid ethyl esters (1g cap). Adult, NOT/kg. Post-MI: 1'cap daily oral. Hypertriglyceridaemia: 2 cap 12H oral.

Omeprazole. Usually 0.4-0.8mg/kg (adult 20-40mg) 12-24H oral. ZE synd: 1mg/kg (adult 60mg) 12-24H oral, incr up to 3mg/kg (adult 120mg) 8H if reqd. IV: 2mg/kg (adult 80mg) stat, then 1mg/kg (adult 40mg) 8-12H. H.pylori quadruple therapy (adult NOT/kg): 20mg 12H + bismuth subcitrate potassium 420mg 6H + metronidazole 375mg 6H + tetracycline hydrochloride 375mg 6H oral for 10-14 days. H.pylori triple therapy (adult, NOT/kg): 20mg + amoxicillin 500mg + clarithromycin 500mg 12H oral for 7 days. May lower Mg. See also ketoprofen + omeprazole.

Ondansetron. IV: proph 0.15mg/kg (adult 4mg); treatment 0.2mg/kg (adult 8mg) over 5 min, or 0.2-0.5mcg/kg/min. Chemotherapy: 0.15mg/kg (max 16mg) 4H x3 doses IV. Oral: 0.1-0.2mg/kg (usual max 8mg) 6-12H.

Oprelvekin (IL-11). 2mg/m² (adult 50mcg/kg) SC daily.

Oral rehydratn soltn (ORS). See glucose electrolyte soltn.

Orciprenaline. Oral: 0.25-0.5mg/kg (adult 20mg) 6H. Resp soltn (2%): 0.5ml dilt'd to 4ml 3-6H (mild), 1ml dilt'd to 4ml (moderate), undiluted continuously (severe, in ICU). Aerosol

750mcg/dose: 2 puffs 4-6H.

Oritavancin. Adult, NOT/kg 1.2g IV over 3hr once.

Orlistat. 1.5-3mg/kg (adult 60-120mg) with each main meal containing fat (max 3 doses/day).

Ornipressin (POR 8). IV: 0.1u/kg/hr (max 6u/hr) for max 4hr, then 0.03u/kg/hr (max 1.5u/hr). SC: 5u in 30ml saline, max total dose 0.1u/kg.

Orphenadrine. 1-2mg/kg (adult 50-100mg) 8H oral.

Osazazine. Adult, NOT/kg: 500mg 6H oral.

Oseltamivir. Prem <38wk 1mg/kg, >38wk-8mo 3mg/kg, ≥9mo 3.5mg/kg (max 75mg) 12H for 5 days oral. Prophylaxis: same dose, daily.

Osimertinib. Adult, NOT/kg: 80mg daily oral.

Ospemifene. Adult, NOT/kg: 60mg daily oral.

Oteracil. See tegafur.

Oxacillin. 15-30mg/kg 6H oral, IV, IM. Severe infn: 40 mg/kg (max 2g) 12H (1st wk life), 8H (2nd wk), 6H or infsn (>2wk).

Oxaliplatin. 85mg/m² every 2wk over 2-6hr IV before 5-FU.

Oxandrolone. 0.1-0.2mg/kg (adult 2.5-20mg) daily oral.

Turner's synd: 0.05-0.1mg/kg daily.

Oxaprozin. Usually 20mg/kg (max 1200mg), range 10-26mg/kg (max 1800mg), daily oral.

Oxazepam. 0.2-0.5mg/kg (adult 10-30mg) 6-8H oral:

Oxcarbazepine. 4-5mg/kg (max 150mg) 12H oral; incr wkly by max 5mg/kg/dose (max 300mg) to usually 15mg/kg/dose (adult 750mg), max 25mg/kg/dose (adult 1200mg).

Oxerutin. 10mg/kg (adult 500mg) 12H oral.

Oxethazaine. 10mg/5ml (with Al hydrox + Mg hydrox): Adult, NOT/kg 5-10ml 6-8H oral.

Oxiconazole. 1% cream, lotion: apply 12-24H.

Oxitropium. Inhaltn: 200mcg (NOT/kg) 8-12H.

Oxpentifylline. Adult, NOT/kg: slow release tab 400mg 8-12H oral.

Oxprenolol. 0.5-2mg/kg (adult 30-120mg) 8-12H oral.

Oxtriphylline. See choline theophyllinate.

Oxybuprocaine. 4mg/ml (0.4%): 1 drop/eye 8-12H. Deep anaes: 1 drop/eye every 90sec x3 doses. See also fluorescein + oxybuprocaine.

Oxybutynin. <5yr: 0.2mg/kg 8-12H oral. >5yr (NOT/kg): 2.5-5mg 8-12H oral. Slow rel: adult 5-30mg daily oral. Adult, NOT/kg: apply 39cm² patch (3.9mg/day) x2/wk; apply 100 mg gel sachet daily.

Oxycodone. 0.1-0.2mg/kg (adult 5-10mg) 4-6H oral, SC or IV (beware hypoventilation); incr if reqd. IV infsn: 0.05mg/kg/hr (adult 2mg/hr) adjusted. Slow release: 0.6-0.9mg/kg (adult 10mg) 12H oral, incr if reqd. Suppos: adult 30mg 6-8H PR.

Oxycodone + naloxone. 5mg/2.5mg, 10/5, 20/10, 40/20 tabs. If >80mg oxycodone/day, supplement with oxycodone.

Oxymetazoline. 0.25mg/ml = 0.025% (<6yr), 0.5mg/ml = 0.05% (>6yr): 2-3 drops or sprays in each nostril 8-12H.

Oxymetholone. 1-2mg/kg (up to 5mg/kg) daily oral.

Oxymorphone. Usually 0.02-0.03mg/kg (adult 1-1.5mg) 4-6H IM or SC. Slow IV: 0.01mg/kg (adult 0.5mg) 4-6H. Oral: 0.1-0.4mg/kg (adult 5-20mg) 4-6H; slow-release adult 5mg 12H. PR: 0.1mg/kg (adult 5mg) 4-6H.

Oxytetracycline. >8yr (NOT/kg): 250-500mg 6H oral, or 250-500mg 6-12H slow IV.

Oxytocin. Labour, NOT/kg: 1-4mU/min IV, may incr to 20 mU/min max. Lactation: 1 spray (4iu) into each nostril 5min before infant feeds.

Packed cells. 4ml/kg raises Hb 1g%. A bag is about 300ml.

Paclitaxel. 175mg/m² IV every 3wk, x3-6 doses. Albumin-bound: 260mg/m² IV every 3wk.

Palbociclib. Adult, NOT/kg: 125mg daily oral for 21 days of 28 day cycle, with letrozole 2.5mg daily on all 28 days.

Palifermin. 60mcg/kg IV daily for 3 days before chemo, and for 3 days after.

Paliperidone. 3mg, 6mg or 9mg slow-rel tab. Adult (NOT/kg): 6mg daily oral; may incr by 3mg every 5-7 days; Injection slow-rel 234mg IM, 156mg after 1wk, then 117mg monthly.

Paliperidone palmitate. 78mg (=273mg/mo), 117mg (=410mg/mo), 156mg (=546mg/mo), 234mg (=89mg/mo) every 3mo IM.

Palivizumab. 15mg/kg IM once a month.

Palonosetron. Adult: 0.25mg IV 30min before chemo.

Pamidronate. Osteoporosis, OI: 3-7mg/kg daily oral, 1mg/kg (adult 15-90mg) IV over 4hr daily x3 every 4mo, or once every 3-4wk. Hypercalcaemia 20-50mg/m² (depending on Ca level) IV over 4hr every 4wk.

Pancreatic enzymes. Cotazyme, Creon, Nutrizym, Pancrease, Pancrex, Ultrase, Viokase. NOT/kg: usually 1-5 caps with meals. Max lipase 10,000u/kg/day.

Pancuronium. ICU: 0.1-0.15mg/kg IV prn. Theatre: 0.1mg/kg IV, then 0.02mg/kg prn. Infsn: 0.25-0.75mcg/kg/min.

Panitumumab. 6mg/kg IV over 1-2hr every 14 days.

Panobinostat. Adult, NOT/kg: 20mg oral day 1,3,5,8,10,12 of 21 day cycle for 8-16 cycles.

Pantoprazole. 1mg/kg (adult 40mg) 12-24H oral, IV. GI hge, adult: 80mg stat, then 8mg/hr. ZE: 80mg 8-12H adjusted to achieve acid <10mmol/L. May lower Mg.

Papaveretum (Omnopon). 0.2mg/kg IV, 0.4mg/kg IM (half life 2-4hr). ICU: 0.3mg/kg IV, 0.6mg/kg IM. See also hyoscine + papaveretum.

Papaverine. Adult, NOT/kg: 150-300mg 12H oral, 12-40 mg x1-2/wk intracavernosal. IA lines: 0.12mg/ml.

Para-aminobenzoic acid. See aminobenzoate.

Para-aminohippuric acid. See aminohippuric acid.

Paracetamol. Oral, IV: 20mg/kg stat; then 15mg/kg 4-6H (max 4g/day); child usual daily max 60mg/kg (up to 90mg/kg for 48hr). Neonate: 7.5mg/kg (<10 days) 15mg/kg (>10 day) 6H. Rectal: 40mg/kg stat, then 30mg/kg 6H (max 5g/day).

Paraffin. Liquid: 1ml/kg (adult 30-45ml) daily oral. Liquid 50% + white soft 50%, ointmnt: apply 6-12H. See also agar.

Paraldehyde. IM: 0.2ml/kg (adult 10ml) stat; then 0.1 ml/kg 4-6H. IV: 0.2ml/kg (adult 10ml) over 15 min, then 0.02ml/kg/hr (max 1.5ml/hr). Rectal, NG: 0.3ml/kg (adult 10ml) dilute 1:10.

Parathyroid hormone. 1mcg/kg (adult 50mcg) incr if reqd to max 2mcg/kg (adult 100mcg) daily SC. See also teriparatide.

Parecoxib. Adult, NOT/kg: 40mg stat IM or IV, then 20-40mg 6-12H; max 80mg/day.

Paricalcitol. 0.04-0.1mcg/kg x2-3/wk IV during dialysis, incr every 2-4wk if reqd to max 0.24mcg/kg. Or dose in mcg = [IPTH picomol/L] / 7.

Paritaprevir. See ombitasvir.

Paromomycin. Amoebiasis: 10mg/kg 8H oral for 5-10 days. Hepatic coma: 20mg/kg (adult 1g) 6H oral.

Paroxetine. 0.4mg/kg (adult 10mg) daily oral, incr if reqd over 4wk to 1mg/kg (adult 20-60mg) daily. Hot flushes (NOT/kg) 7.5mg at night oral.

Pasireotide. Adult, NOT/kg: 0.6-0.9mg 12H SC.

Pasugrel. Adult, NOT/kg: 60mg stat, then 5mg (<60kg) 10mg (≥60kg) daily oral.

Patiromer. Adult, NOT/kg: 8.4g daily oral, incr to max 25.2g/d.

Pazopanib. Adult, NOT/kg 800mg (400mg if toxicity) daily oral.

Pegademase. 10u/kg IM wkly, incr to 20u/kg wkly.

Pegaptanib sodium. Adult: 1.65mg (0.3mg of free acid form) by intravitreal inj every 6wk.

Pegaspargase. 82.5iu/kg (<0.6m²) or 2500iu/m² (>0.6m²) IM, or IV over 2hr, every 14 days.

Pegfilgrastim. >44kg: 6mg SC 24hr after chemo.

Peginesatide. 0.04mg/kg monthly IV or SC.

Peginterferon alfa-2a. Hep C, Adult, NOT/kg: 180mcg wkly SC, plus ribavirin 1g (1.2g if >75kg) daily oral, for 48wk.

Peginterferon alfa-2b. Hep C: 1.5mcg/kg wkly SC, plus ribavirin 15mg/kg (adult 800mg) daily oral, for 48wk. Melanoma: 6mcg/kg/wk SC for 8wk, then 3mcg/kg/wk.

Peginterferon beta-1a. Adult, NOT/kg: 63mcg SC day1, 94mcg day15, 125mcg day29 and every 14 days.

Pegloticase. Adult, NOT/kg: 8mg every 2wk IV over 2hr.

Pegvisomant. 40mg SC stat, then 10mg daily adjusted up or down by 5mg (max 30mg/day) every 4-6wk based on serum IGF-1 concentration.

Pembrolizumab. 2mg/kg IV over 30min every 3wk.

Pemetrexed. 500mg/m² IV over 10min every 3wk.

Pemoline. >6yr (NOT/kg): 20-120mg daily oral.

Penbutolol. 0.4-1.5mg/kg (adult 20-80mg) daily oral.

Penciclovir. 1% cream (10mg/g): apply x6/day for 4 days.

Penicillamine (d-penicillamine). Arthritis: 1.5mg/kg (adult 125mg) 12H oral, incr over 3mo to max 3mg/kg (adult 375 mg) 6-8H. Wilson's dis, lead poisoning: 5-7.5 mg/kg (adult 250-500mg) 6H oral. Cystinuria: 7.5mg/kg (adult 250-1000

mg) 6H oral, titrated to urine cystine <100-200mg/day.

Penicillin V. See phenoxymethylpenicillin.

Penicillin, benzathine + procaine. 900mg/300mg in 2ml; 0-2yr half vial, 3yr or more 1 vial IM once.

Penicillin, benzathine. 1mg = 1250u. Usually 25mg/kg (max 900mg) IM once. Venereal disease: 40mg/kg (max 1.8g) IM once. Strep proph: 25mg/kg (max 900mg) IM 3-4wkly, or 10 mg/kg IM 2wkly.

Penicillin, benzyl (penicillin G, crystalline). 1mg = 1667u. 30mg/kg 6H. Severe infn: 50mg/kg (max 2g) IV 12H (1st wk life), 6H (2-4 wk), 4H or constnt infsn (>4 wk).

Penicillin, procaine. 1mg = 1000u. 25-50mg/kg (max 1.2-2.4g) 12-24H IM. Single dose: 100mg/kg (max 4.8g).

Penicilloyl polylysine (Prepen). 0.00006 molar. Scratch: 1 drop. Intradermal: 0.01-0.02ml (NOT/kg).

Pentaerythritol tetranitrate. 0.2-1mg/kg (adult 10-60mg) 6-8H oral.

Pentagastrin. 6mcg/kg SC, or 0.6mcg/kg/hr IV.

Pentamidine isethionate. 3-4mg/kg (1.7-2.3mg/kg base) IV over 2hr or IM daily for 10-14 days (1mg base = 1.5mg mesylate = 1.74mg isethionate). Neb: 600mg/6ml daily for 3wk (treatment), 300mg/3ml every 4wk (prophylaxis).

Pentastarch. 10% soltn: 10-40mg/kg IV.

Pentazocine. Oral: 0.5-2.0mg/kg (adult 25-100mg) 3-4H. SC, IM or slow IV: 0.5-1mg/kg (adult 30-60mg) 3-4H. PR: 1mg/kg (adult 50mg) 6-12H.

Pentetate calcium trisodium. 14mg/kg (adult 1g) IV.

Pentetate zinc disodium. 14mg/kg (adult 1g) IV.

Pentobarbital. See pentobarbitone.

Pentobarbitone. 0.5-1mg/kg (adult 30-60mg) 6-8H oral, IM, slow IV. Hypnotic: 2-4mg/kg (adult 100-200mg).

Pentosan. 2mg/kg (adult 100mg) 8H oral.

Pentostatin. 4mg/m² IV wkly.

Pentoxifylline. See oxpentifylline.

Pentoxyverine. 0.3mg/kg (adult 15mg) 3-6H oral.

Peppermint oil. Adult, NOT/kg. 0.2ml cap: 1-2 8H oral.

Peramivir. 10mg/kg (max 600mg) IV over 30min once.

Perampanel. ≥12yr (NOT/kg): 2mg at night oral, incr by 2mg wkly to max 12mg daily.

Pergolide. Parkinson's: 1mcg/kg (max 50mcg) daily, incr to max 25mcg/kg (max 2mg) 8H oral. Hyperprolactinaemia: 0.5-3mcg/kg daily.

Perhexiline. 2mg/kg (adult 100mg) daily oral; adjust every 2-4wk to max 6-8mg/kg (adult 300-400mg) daily. Maintain plasma level 150-600mcg/L.

Periciazine. 0.5mg/yr of age (1-10yr) 10mg (>10yr) daily oral, incr if reqd to max 1mg/yr (1-10yr) 25mg (>10yr) 8H.

Pericyazine. See periciazine.

Perindopril. 0.05-0.15mg/kg (adult 2-8mg) daily oral. See also amlodipine, indanapamide.

Permethrin. 1% creme rinse (head lice): wash hair; apply creme for 10min, wash off; repeat in 7 days. 5% cream (scabies): wash body, apply to whole body except face, wash off after 12-24hr; repeat in 7 days.

Perphenazine. 0.1-0.3mg/kg (adult 5-20mg) 8-12H oral.

Pertussis. See diphtheria + tetanus + pertussis vaccine.

Pertuzumab. Adult, NOT/kg: 840mg IV over 1hr stat, then 420mg over 30min every 3wk.

Pethidine. 0.5-1mg/kg (adult 25-50mg) IV, 0.5-2mg/kg (adult 25-100mg) IM (half life 2-4hr). Infsn: 5mg/kg in 50ml at 1-4ml/hr (0.1-0.4mg/kg/hr). PCA 5mg/kg in 50ml: usually bolus 2ml with lockout 5min, optional background 0.5ml/hr.

Phenacemide. 10-20mg/kg (adult 0.5-1g) 8H oral.

Phenazocine. 0.1-0.4mg/kg (adult 5-20mg) 4-6H oral or sublingual.

Phenazone. See benzocaine + phenazone.

Phenazopyridine. 4mg/kg (adult 200mg) 6H oral for 2 days.

Phendimetrazine. 0.4-1.4mg/kg (adult 20-70mg) 8H oral.

Phenelzine. 0.3-2mg/kg (adult 15-90mg) 8H oral.

Phenindamine. 0.5-1mg/kg (adult 25-50mg) 8-12H oral.

Phenindione. 2mg/kg (adult 100mg) 12H day 1, 1mg/kg (adult 50mg) 12H day 2, then 0.25-1mg/kg (adult 12.5-50mg) 12H oral. INR for prophylaxis 2-2.5, treatment 2-3.

Pheniramine. 0.5-1mg/kg (adult 25-50mg) 6-8H oral. Slow release tab 75mg at night.

Phenobarbital. See phenobarbitone.

Phenobarbitone. Loading dose in emergency: 20mg/kg IM or IV over 30min stat. Ventilated: repeat doses of 10-15mg/kg up to 120mg/kg or more in 24hr (beware hypotension). Usual maintenance: 2mg/kg (adult 100mg) daily IV, IM or oral, incr to 3-8mg/kg daily. Level 60-172 umol/L (x0.23 = mcg/ml).

Phenolphthalein. 0.5-5mg/kg (adult 30-270mg) at night oral. See also agar + paraffin + phenolphthalein.

Phenoperidine. 0.03-0.05mg/kg (adult 1mg) every 40-60min. Ventilated: 0.1-0.15mg/kg (adult 2-5mg) every 40-60min.

Phenothrin. Apply; shampoo after 30min (0.5% mousse) 2hr (0.2% lotion), 12hr (0.5% emulsion); comb hair when wet.

Phenoxybenzamine. 0.2-0.5mg/kg (adult 10-40mg) 8-12H oral. Cardiac surgery: 1mg/kg IV over 1-4hr stat, then 0.5 mg/kg 8-12H IV over 1hr or oral.

Phenoxymethylpenicillin (penicillin V). 10-15mg/kg (adult 250-500mg) 6H oral. Proph: 250mg (1mo-12yr) 250mg (>12yr) 12H.

Phentermine. Adult, NOT/kg: 30-40mg daily oral, reducing to 15-40mg daily.

Phentermine resin. Adult, NOT/kg: 15-30mg daily oral.

Phentermine + topiramate. 3.75mg/23mg, 7.5/46, 11.25/69, 15/92 cap. Adult, NOT/kg: incr to 7.5/46 or 15/92 cap daily.

Phentolamine. 15mg/kg in 50ml saline at 1-10ml/hr (5-50 mcg/kg/min) IV. T_{1/2} 19min, longer if renal impairment.

Phenylbutazone. Initially 2mg/kg (adult 100mg) 4H, reducing to 1-2mg/kg (adult 50-100mg) 6-8H oral.

Phenylephrine. IV: 2-10mcg/kg stat (adult 500mcg), then 1-5mcg/kg/min. SC or IM: 0.1-0.2mg/kg (max 10mg). Oral: 0.2 mg/kg (max 10mg) 6-8H. 0.15%, 10% eye drops: 1 drop/eye 6-8H. 0.25%, 0.5% nose drops: 1-3 drops/sprays per nostril 6-8H. See also chlorpheniramine.

Phenylephrine 0.12% + prednisolone acetate 1%. 1 drop per eye 6-12H.

Phenyltoloxamine. 1mg/kg (adult 50mg) 8H oral.

Phenytoin. Loading dose in emergency: 15-20mg/kg (max 1.5g) in saline IV over 1 hr. Initial maintenance, oral or IV: 2mg/kg 12H (preterm); 3mg/kg 12H (1st wk life), 8H (2wk-4yr), 12H (5-12yr); 2mg/kg (usual max 100mg) 8H >12 yr. Level 40-80 umol/L ($\times 0.25 = \text{mcg/ml}$).

Pholcodine. NOT/kg: 2.5-5mg (6-12yr) 10-15mg (>12yr) 6-8H oral.

Phosphate, as potassium dihydrogenphosphate (1mmol/ml). Usually 0.06mmol/kg/hr for 6hr IV, max 0.2mmol/kg/hr (max 70mmol/day).

Phosphate, sodium. Laxative, diluted, NOT/kg: 250mg (2-4yr) 250-500mg (>4yr) 6H oral.

Phosphate, sodium (Fleet enema). Na 1.61mEq/L + PO_4 4.15 mEq/L + P 1.38mEq/L: 33ml (2-5yr), 66ml (5-11yr), 133ml (adult) rectal.

Phosphatidylcholine. Usually 60mg/kg (max 3g) daily oral.

Phosphocol P³². Adult, NOT/kg. Peritoneum: 370-740 MBq (10-20 mCi). Peritoneal: 222-444 MBq (6-12 mCi). Interstitial: 3.7-18.5 MBq (0.1-0.5 mCi) per gram of tumor.

Phosphocysteamine. 10mg/kg 6H oral, incr by 2.5mg/kg per dose every 2wk to 10-20mg/kg 6H so leukocyte half-cysteine <2nmol per mg protein 6hr after dose.

Physostigmine. 0.02mg/kg (max 1mg) IV every 5 min until response (max 0.1mg/kg), then 0.5-2.0mcg/kg/min.

Phytomenadione (vitamin K1). Deficiency with hge: FFP 10ml/kg, then 0.3mg/kg (max 10mg), IM or IV over 1hr. Prophylaxis in neonates (NOT/kg): 1mg (0.1ml) IM at birth. Warfarin reversal: 0.02mg/kg (max 1mg) IV, SC, oral (repeat if reqd); if severe hge 0.3mg/kg (max 10mg) with FFP 10 ml/kg. Mitochondrial disease (NOT/kg): 10mg 6H oral. Cystic fib: 2.5mg (<2yr) 5mg (2-5yr) 10mg (>5yr) $\times 2/\text{wk}$.

Phytonadione. See phytomenadione.

Picibanil (OK-432). 1 Klinische Einheit = 0.1mg. 1mg into tumour 1-2wk preop, then 0.5mg/2wk ID for 1yr postop.

Pilocarpine. 0.1mg/kg (adult 5mg) 4-8H oral. 0.5%, 1%, 2%, 3%, 4% eye drops: 1 drop/eye 6-12H.

Pimavanserin. Adult, NOT/kg: 34mg daily oral.

Pimecrolimus. 1% cream: apply 12H.

Pimozide. 0.04mg/kg (adult 20mg) daily oral, incr if reqd to max 0.4mg/kg (adult 20mg) daily.

Pindolol. 0.3mg/kg (adult 15mg) 8-24H oral.

Pine tar. Gel, solution: 5ml to baby bath, 15-30ml to adult bath; soak for 10min.

Pioglitazone. Adult, NOT/kg: 15-45mg daily oral. See also alogliptin, glimepiride.

Pipamperone. Adult, NOT/kg: 40mg (max 120mg) 8H oral.

Pipecuronium. 20-85mcg/kg IV stat, then 5-25mcg/kg prn.

Piperacillin. 100mg/kg (adult 2-4g) 8H (<6mo) 6-8H (≥6mo); consider constant infsn for severe infn.

Piperacillin 4g + tazobactam 0.5g. As for piperacillin.

Piperaquine. See dihydroartemisinin + piperaquine.

Piperazine. 75mg/kg (max 4g) oral daily for 2 days (ascaris), 7 days (pinworm).

Piperazine oestrone sulphate. See estropipate.

Piperonyl butoxide bioallethrin. Apply enough to wet scalp or body, leave 30min, wash off.

Pipotiazine. Oily injtn: initially 0.5mg/kg (adult 25mg), then gradual incr to 1-4mg/kg (adult 50-200mg) every 4wk IM.

Piracetam. 15mg/kg (max 800mg) 8H oral, IM or IV.

Pirbuterol. Oral: 0.2-0.3mg/kg (adult 10-15mg) 6-8H. Inhaltn (NOT/kg): 0.2-0.4mg 4-6H.

Pirfenidone. 267mg. Adult, NOT/kg: 1cap 8H oral for 1wk, 2cap 8H 1wk, then 3cap 8H.

Piroxicam. 0.2-0.4mg/kg (adult 10-20mg) daily oral. Gel 5mg/g: apply 1g (3cm) 6-8H for up to 2wk.

Pitavastatin. Adult, NOT/kg: 2mg (max 4mg) daily oral.

Pivampicillin. 15mg/kg (adult 500mg) 8-12H oral.

Pivampicillin 1.25mg + pivmecillinam 1mg. 10mg/kg per dose (adult 250mg) of pivampicillin 12H oral.

Pivmecillinam. 5-10mg/kg (adult 200-400mg) 6-8H oral.

Pixantrone. 50mg/m² IV over 60min on days 1, 8 and 15 of each 28 day cycle.

Pizotifen. NOT/kg: 0.5mg daily oral, incr if reqd to max 0.5mg morning and 1mg at night.

Plague vaccine (CSL). Inanimate. Adult (>11yr): 0.5ml SC stat, and 1-4wk later (2 doses); boost every 6mo. Child: 0.1ml (6mo-2yr), 0.2ml (3-6yr), 0.3ml (7-11yr) SC stat, 1-4wk later, and 1-4wk later (3 doses); boost every 6mo.

Platelets. <10kg 10ml/kg (max 1 paed pack); 10-20kg 10 ml/kg (or 2 paed pack); 20-30kg 10ml/kg (or 3 paed pack); >30kg 1 adult pack (max 10ml/kg). Packs: paed 40-60ml, apheresis ≈200ml (100-400ml), pooled 160-300ml.

Plerixafor. 0.24mg/kg (max 40mg) daily SC for up to 4 days.

Plicamycin. Testicular tumours: 25-30mcg/kg daily for 8-10 days IV over 6hr, repeat monthly if response. Hypercalcaemia: 25mcg/kg daily for 3-4 days, then x1-3/wk.

Pneumococcal vaccine, CRM conjugate (Prevenar) or H.influenzae conjugate (Synflorix). Inanimate. 0.5ml IM. ≤6mo: 2mo, 3mo, 4mo, 12-15mo (4 doses). 7-11mo: 6mo, 7mo, 12-15mo (3 doses). 12-23mo: 2 doses 2mo apart.

>23mo: 1 dose.

Pneumococcal vaccine, polysaccharide (Pneumovax 23).
Inanimate. >2yr: 0.5ml SC or IM once. Boost every 5yr.

Podofilox. See podophyllotoxin.

Podophyllotoxin. 0.5% paint: apply 12H for 3 days, then none for 4 days; 4wk course.

Podophyllum. 15%-25% soltn, oint: apply to wart x2/day.

Polidocanol. 0.5%, 1%: 0.1-0.3ml/dose IV, max 10ml/day.

Polifeprosan. See carmustine wafers.

Poliomyelitis vaccine, oral (Sabin). Live. 2 drops oral at 2mo, 4mo and 6mo (3 doses). Boost at 5yr, and if going to epidemic area.

Poliomyelitis vaccine, SC (IPOL). Inanimate. 0.5ml SC stat, 8wk later, and 8wk later (3 doses). Boost 12mo later, and at school entry. See also diphtheria combination vaccines.

Poloxalkol. See poloxamer.

Poloxamer. 10% soltn: <6mo 0.3ml, 6-18mo 0.5ml, 18mo-3yr 0.8ml 8H oral. >3mo use docusate.

Polyethylene glycol. See colonic lavage, macrogol.

Polygeline. 10-20ml/kg (may be repeated). Half life 2hr.

Polymyxin B. See bacitracin; dexamethasone.

Polynoxylin. 10% gel: apply 12H.

Polystyrene sulphonate. See sodium polystyrene sulph.

Polythiazide. 0.02-0.1mg/kg (adult 1-4mg) daily oral.

Polyvinyl alcohol. 1.4%, 3% soltn: 1 drop/eye prn.

Pomalidomide. Adult, NOT/kg: 4mg daily on days 1-21 of 28 day cycle; use 1-3mg dose if toxicity.

Ponatinib. Adult, NOT/kg: 45mg (30mg if neutropaenia, thrombocytopaenia or liver toxicity) oral daily.

POR 8. See ornipressin.

Poractant alfa (porcine surfactant, Curosurf). 80mg/ml.
Intratracheal: 1.25-2.5ml/kg stat, then up to 2 extra doses of 1.25ml/kg 12H if reqd.

Porfimer. 2mg/kg IV, then 630nm laser light after 40-50hr and 96-120hr; max 3 courses at least 30 days apart.

Posaconazole. Invasive infn: oral with fatty meal 150mg/m² (max 200mg) 6H, or 300mg/m² (max 400mg) 12H; IV over 90min 230mg/m² (max 300mg) 12H day1, then daily. Oral candida (adult NOT/kg): 200mg stat, then 100mg daily. Prophylaxis: 230mg/m² (max 300mg) 12H oral with fatty meal.

Potassium citrate. See citric acid + potassium citrate.

Potassium guaiacolsulfonate. 1-3mg/kg (adult 50-160 mg) 4-6H oral.

Potassium. Deficiency: usually 0.3mmol/kg/hr (max 0.4 mmol/kg/hr) for 4-6 hr IV, then 4mmol/kg/day. Max oral dose 1mmol/kg (<5yr), 0.5mmol/kg (>5yr). Maintenance 2-4 mmol/kg/day. If peripheral IV, max 0.05 mmol/ml. 1g KCl = 13.3mmol K, 7.5% KCl = 1mmol/ml.

Potassium iodide. Nuclear accident (NOT/kg): 16.25mg (<1mo), 32.5mg (1mo-3yr), 65mg (4yr-18yr and <70kg),

130mg (adult) daily oral.

Potatoes, roast. Oven 230°C. (210°C fan-forced), pan with 5mm peanut oil in oven; peel potatoes, boil 20-30min until friable on outside, drain, put in hot oil, cook on top shelf of oven for 60-100min until crisp (baste every 20min).

Povidone-iodine. Cream, oint, paint, soltn: apply 6-12H.

Pralatrexate. 30mg/m² IV wkly for 6wk in 7wk cycle.

Pralidoxime. 50mg/kg (adult 2g) over 30min, then 20 mg/kg/hr (adult 1g/hr) for 48hr, then 20mg/kg (adult 1g) 4H.

Pramipexole. Adult, NOT/kg: 0.125mg 8H incr by 0.125-0.25 mg every 5-7 days to 0.5-1.5mg 8H oral. Restless legs: 0.125mg (max 0.5mg) 2-3 hours before bedtime. Sustained release: 0.26mg daily oral, incr if reqd to max 3.15mg daily.

Pramlintide. Reduce insulin dose by 50% initially. Adult, NOT/kg. Type 1 diabetes: 15mcg SC before meals (x4/day), incr if tolerated to 30-60mcg/dose. Type 2: 60mcg SC before meals (x4/day), incr if tolerated to 90-120mcg/dose.

Pramocaine. See hydrocortisone + pramocaine cream.

Pramoxine. 1% cream, lotion: apply 6-8H.

Prasugrel. Adult, NOT/kg: 60mg load, then 5mg (<60kg) 10mg (≥60kg) daily oral.

Pravastatin. Adult, NOT/kg: 20-80mg at bedtime oral.

Praziquantel. 25mg/kg oral once (dwarf tapeworm), 4H x3 doses (schistosomiasis), 8H x6 doses (other flukes), 8H 14 days (cysticercosis). Adult tapeworm 10mg/kg once.

Prazosin. 5mcg/kg (max 0.25mg) test dose, then 0.025-0.1 mg/kg (adult 1-5mg) 6-12H oral.

Prednisolone. Oral. Alopecia, autoimm liver, Crohn, epilepsy, JIA, Kawasaki, MS, SLE, ulc col: 1-2mg/kg (max 60mg) daily, gradually reducing. Asthma: 0.5-1mg/kg 6H for 24hr, 12H x2, then 1mg/kg daily. Croup: 1mg/kg stat and in 12hr; severe 4 mg/kg stat, then 1mg/kg 8H. ITP: 4mg/kg daily. Transpl reject, nephrotic synd: 60mg/m² (max 80mg) daily, reducing over several months. Physiological: 4-5mg/m² daily. Eye 0.5%: initially 1drop/eye 2H, then 6-12H. 1mg = hydrocortisone 4mg in glucocorticoid activity, 0.8mg in mineralocorticoid. See also methylprednisolone, neomycin + prednisolone, phenylephrine + prednisolone.

Prednisolone sodium phosphate. 0.5%: ear 2-3 drops/ear, eye 1 drop/eye 2-6H.

Prednisone. Action equivalent to prednisolone.

Pregabalin. Adult, NOT/kg: 50mg 8H oral, incr gradually if reqd to max 200mg 8H.

Pridopidine. Adult, NOT/kg: 45mg 12H oral.

Prilocaine. Max dose 6mg/kg (0.6ml/kg of 1%). With adrenaline max dose 9mg/kg (0.9ml/kg of 1%).

Primaquine base. 7.5mg base = 13.2mg phosphate. Oral. 0.5 mg/kg (adult 30mg) daily for 14 days (>70kg 30mg daily until 6mg/kg given); if nausea 0.25mg/kg (max 15mg) 12H 14-21 days. Proph: 0.5mg/kg (max 30mg) daily. Gameteocyte: 0.7

mg/kg (adult 45mg) once.

Primidone. Initially 2.5mg/kg (adult 125mg) at night, incr if reqd to max 15mg/kg (adult 750mg) 12H oral. Trough level (phenobarbitone) 60-120umol/L.

Pristinamycin. Adult, NOT/kg: 0.5-1g 8-12H oral.

Probenicid. 25mg/kg (adult 1g) stat, then 10mg/kg (adult 500mg) 6H oral.

Probucol. 10mg/kg (adult 500mg) 12H oral.

Procaïnamide. IV: 0.4mg/kg/min (adult 20mg/min) for max 25min, then 20-80mcg/kg/min (max 2g/day). Oral: 5-8mg/kg 4H. Level 3-10mcg/ml.

Procaine. Max dose 20mg/kg (1ml/kg of 2%).

Procarbazine. 1mg/kg (adult 50mg) daily oral, incr over 4-6 days to 4-6mg/kg (adult 200-300mg) daily until remission, then 1-2mg/kg (adult 50-100mg) daily. Suspend if leucocytes <3000/mm³ or platelets <80,000/mm³.

Prochlorperazine. 1mg base = approx 1.5mg edisylate, maleate or mesylate. Only use if >10kg. Oral (salt): 0.2mg/kg (adult 5-10mg) 6-8H, slow incr if reqd to max 0.6mg/kg (max 35mg) 6H in psychosis. IM, slow IV (salt): 0.2mg/kg (adult 12.5mg) 8-12H. Buccal (salt): 0.05-0.1mg/kg (max 6mg) 12-24H. PR (base): 0.2mg/kg (adult 25mg) 8-12H.

Procyclidine. 0.05-0.2mg/kg (adult 2.5-10mg) 6-8H oral.

Progesterone. Adult, NOT/kg. Post-menopausal: 100mg daily on days 1-25 of cycle, or 200mg daily on days 15-26. Premenst syn: 200-400mg PV or PR 12-24H (last half of cycle). Dysf ut hge: 5-10mg/day IM for 5-10 days before menses. Prevent abrtn: 25-100mg IM every 2-4 days.

Proguanil. 3.5mg/kg (adult 200mg) daily oral after food. See also atovaquone + proguanil.

Promazine. Oral: 2-4mg/kg (adult 100-200mg) 6H. IM 0.7mg/kg (max 50mg) 6-8H.

Promethazine. Antihist, antiemetic: 0.2-0.5mg/kg (adult 10-25mg) 8H IV, IM or oral. Sedative, hypnotic: 0.5-1.5mg/kg (adult 25-100mg).

Propacetamol IV preparation: 1g = 0.5g paracetamol.

Propafenone. Oral: 70mg/m² (adult 150mg) 8H, incr if reqd to max 165mg/m² (adult 300mg) 8H. IV: 2mg/kg over 2hr, then 4mcg/kg/min incr if reqd to max 8mcg/kg/min.

Propamidine. 0.1%: 1 drop/eye 6H for up to 2 days.

Propantheline. 0.3-0.6mg/kg (adult 15-30mg) 6H oral.

Propiverine. 0.3mg/kg (adult 15mg) 6-12H oral.

Propofol. Sedation in ICU: 1-3mg/kg/hr (max 4mg/kg/hr) IV, for no longer than 48 hr. Short-term anaesthesia: child 2.5-3.5mg/kg stat, then 7.5-15mg/kg/hr IV; adult 1-2.5mg/kg stat, then 3-12 mg/kg/hr IV.

Propranolol. Oral: 0.2-0.5mg/kg (adult 10-25mg) 6-8H, incr to max 1.5mg/kg (max 80mg) 6-8H if reqd. Haemangioma 5wk-5mo old: 0.6mg/kg wk1, 1.1mg/kg wk2, then 1.7mg/kg 12H oral with feed. IV: 0.1 mg/kg (adult 5mg) over 10min (repeat

x1-3 prn), then 0.1-0.3 mg/kg (adult 5-15mg) 3H.

Propylthiouracil. 50mg/m² 8H oral, reduce with response.

Proscillaridin. 10-15mcg/kg (adult 500-750mcg) 8-12H oral.

Prostacyclin. See epoprostenol.

Prostaglandin. See alprostadil (PGE1), carboprost (15-Me-PGF2-alpha), dinoprost (PGF2-alpha), dinoprostone (PGE2), epoprostenol (PGI2, prostacyclin), gemeprost (PGE1 analogue), and misoprostol (PGE1 analogue).

Protamine. IV 1mg/100u heparin (0.5mg/100u if >1hr since heparin dose) slow IV stat; subsequent doses 0.25-0.5mg/kg (max 50mg). 1mg per 100u of heparin infused in last 2hr. 1mg per 25ml pump blood. Monitor APTT 30min after prot.

Protein C. 60-80u/kg to achieve 100% protein C activity, maintain >25%, measure 6hrly until stable, then 12hrly.

Protein C and S. See factor 9 complex (Beriplex, Octaplex).

Prothionamide. TB: 15-20mg/kg (adult 0.75-1g) at night oral. Leprosy: 5-8mg/kg (adult 250-375mg) daily.

Prothrombin complex. See factor 9 complex.

Protionamide. See prothionamide.

Protirelin. NOT/kg: 200mcg IV stat.

Protriptyline. 0.1-0.4mg/kg (adult 5-20mg) 6-8H oral.

Proxymetacaine. 0.5% soltn: 1 drop/eye stat, then 1 drop every 10min for 5-7 doses.

Prucalopride. Adult, NOT/kg: 1-2mg daily oral.

Pseudoephedrine. 1mg/kg (adult 60mg) 6-8H oral. Slow release (adult, NOT/kg): 120mg 12H.

Pseudoephedrine 60mg + triprolidine 2.5mg (Actifed). 10ml elixir=1tab. NOT/kg: 2.5ml (<2yr), 2.5-5ml (2-5yr), 0.5tab (6-12yr), 1tab (>12yr) 6-8H oral.

Psyllium. Usually 0.1-0.2g/kg (adult 5-10g) 8-24H oral.

Pumactant (ALEC). Preterm babies (NOT/kg): disconnect ETT, rapidly inject 100mg in 1ml saline via catheter at lower end ETT, flush with 2ml air; repeat after 1hr and 24hr. Prophylaxis if unintubated: 100mg into pharynx.

Pyrantel. Threadwm, roundwm: 10mg/kg (max 1g) once oral, may repeat wkly x2-3. Hookwm: 10mg/kg (max 1g) daily x3.

Pyrazinamide. 35mg/kg (max 2g) daily oral, or 75 mg/kg (max 3g) x2/wk.

Pyrethrins + piperonyl butoxide. Lice: apply enough shampoo to wet hair, wash off in 15min; repeat in 10 days.

Pyridostigmine. Myas gravis: 1mg/kg (adult 60mg) 4-6H oral, incr to max 2-3mg/kg (adult 120-180mg) 4-6H if reqd. 180mg slow rel tab (Timespan), Adult, NOT/kg: 1-3 tab 12-24H oral. 1mg IV, IM or SC = 30mg oral.

Pyridoxine. With isoniazid or penicillamine (NOT/kg): 5-10mg daily IV,oral. Fits: 10-15mg/kg daily IV or oral. Siderobl an: 2-8mg/kg (max 400mg) daily IV or oral. Premenstrual synd: 50-100mg daily oral. See also doxylamine.

Pyrilamine. See mepyramine.

Pyrimethamine. Adult, NOT/kg: 25mg tab weekly oral.

Pyrimethamine 25mg + sulphadoxine 500mg (Fansidar).

<4yr ½ tab once, 4-8yr 1 tab, 9-14yr 2 tab, >14yr 3 tab.

Prophylaxis: <4yr ¼ tab wkly, 4-8yr ½ tab, 9-14yr ¾ tab,

>14yr 1 tab. See also artesunate, chloroquine, dapsone.

Q fever vaccine (Q-Vax). See Coxiella burnetti vaccine.

Quazepam. 0.15-0.6mg/kg (adult 15-30mg) at night oral.

Quetiapine. >12yr (NOT/kg) 12H oral per dose: 25mg day 1, 50mg day 2, 100mg day 3, 150mg day 4, then 150-250mg (range 75-400mg) 12H. Beware long QTc interval.

Quinagolide. 0.5mcg/kg (adult 25mcg) nocte, incr to 1.5-3 mcg/kg (adult 75-150mcg) nocte oral.

Quinalbarbitone. Sedative 5mg/kg. Premed 10mg/kg.

Quinapril. 0.2-0.8mg/kg (adult 10-40mg) daily oral. See also hydrochlorothiazide.

Quinidine, base. 10mg/kg stat, then 5mg/kg (max 333mg) 4-6H oral. IV: 6.3mg/kg (10mg/kg of gluconate) over 2hr, then 0.0125mg/kg/min (0.2mg/kg/min of gluconate). IM: 15mg/kg stat, then 7.5mg/kg (max 400mg) 8H. NOTE: 1mg base = 1.2mg sulphate = 1.3mg bisulphate = 1.6mg gluconate.

Quinine, base. Oral: 8.3mg/kg (max 542mg) 8H for 3-7 days. Parenteral: 16.7mg/kg IV over 4hr or IM, then 8.3mg/kg (max 542mg) 8H IV over 2hr or IM. NOTE: 1mg base = 1.7 mg bisulphate = 1.2mg dihydrochloride = 1.2mg ethyl carbonate = 1.3mg hydrobromide = 1.2mg hydrochloride = 1.2mg sulph.

Quinine dihydrochloride or sulphate. Malaria. Oral: 10 mg/kg (max 650mg) 8H for 3-7 days. Parenteral: 20mg/kg IV over 4hr or IM, then 10mg/kg (max 650mg) IV over 2hr or IM.

Quinupristin. See dalfopristin + quinupristin.

Rabeprazole. Adult, NOT/kg: 20mg daily oral 4-8wk (DU), 6-12wk (GU), 4wk then 10-20mg daily (reflux). ZE: 60mg daily, incr if reqd to 12H. H.pylori, see omeprazole. May lower Mg.

Rabies vaccine. Inanimate. 1ml IM days 0, 7 and 21 or 28 (3 doses). Boost every 2yr, or if antibody low. Postexposure: immune 1ml IM days 0, 3 (2 doses); non-immune 1ml IM days 0, 3, 7, 14, 30, 90 (6 doses), with immunoglobln.

Racecadotril. NOT/kg: 10mg (3mo-8kg) 20mg (9-12kg) 30mg (13-27kg) 60mg (27-40kg) 100mg (adult) 8H oral.

Radium-223. 50 kBq/kg IV every 4wk for 6 injections.

Raloxifene. 1mg/kg (adult 60mg) daily oral.

Raltegravir. 8mg/kg (adult 400mg, max 600mg) 12H oral.

Raltitrexed. Initially 3mg/m² IV over 15min every 3wk.

Ramelteon. Adult, NOT/kg: 8mg at bedtime oral.

Ramipril. 0.05mg/kg (adult 2.5mg) oral daily, may incr over 4-6wk to 0.1-0.2mg/kg (adult 5-10mg) daily.

Ramucirumab. 8mg/kg IV over 1hr every 2wk.

Ranibizumab. 0.5mg (diabetic 0.3mg) by intravitreal injection every month.

Ranitidine. IV: 1mg/kg (max 50mg) 6-8H, or 2mcg/kg/min.

Oral: 2-5mg/kg (max 150mg) 8-12H, or 300mg (adult) nocte.

Ranitidine bismuth citrate. 8mg/kg (adult 400mg) 12H oral.

H.pylori, see omeprazole.

Ranolazine. 10mg/kg (adult 500mg) 12H incr if reqd to 20mg/kg (adult 1g) 12H oral.

Rapacuronium. Initially 2mg/kg (child), 1.5mg/kg (adult), 2.5mg/kg Caesar); maintenance 33-50% initial.

Rasagiline. Adult, NOT/kg: 0.5-1mg daily oral.

Rasburicase. 0.15-0.2mg/kg IV daily for 5-7 days.

Raxibacumab. IV over 135min once: 80mg/kg (<15kg), 60mg/kg (15-50kg), 40mg/kg (>50kg).

Razoxane. 2mg/kg (max 125mg) 8-24H oral; or 7.5-15mg/kg (max 750mg) daily for 2-3 days every 1-4wk. Kaposi sarc, leukaemia: max 0.33g/m² 8H oral.

Reboxetine. Adult, NOT/kg: 2-4mg 12H oral, incr gradually if reqd to max 10mg 12H.

Recombinant antihaemophilic factor. See factor 8.

Recombinant human antithrombin. See antithrombin.

Regorafenib. Adult, NOT/kg: 160mg daily oral for 21 of every 28 day cycle.

Remifentanyl. 0.05-0.2mcg/kg/min. Ventilated: usually 0.5-1 mcg/kg/min; occasionally up to 8mcg/kg/min if reqd.

Repaglinide. Adult, NOT/kg before main meals, oral: initially 0.5mg, incr every 1-2wk to 4mg (max 16mg/day).

Reproterol. Aerosol 0.5mg/puff: 1-2 puffs 3-8H.

Reserpine. 0.005-0.01mg/kg (adult 0.25-0.5mg) 12-24H oral.

Residonrate. Adult, NOT/kg: 5mg daily oral; slow release 35mg once a week.

Reslizumab. 3mg/kg IV over 20-50min every 4wk.

Resonium. See sodium polystyrene sulphonate.

Retapamulin. 1% ointment: apply 12H for 5 days.

Reteplase. Adult, NOT/kg for myocard infarct: give heparin 5000u IV + aspirin 250-350mg oral; then reteplase 10u IV over 2min + 2nd dose 30min later; then heparin 1000u/hr for 24-72hr and aspirin 75-150mg/day until discharge.

Retigabine. Adult, NOT/kg: 200-400mg 8H oral.

Retinol A. See vitamin A.

Reviparin. Child >2mo: 100u/kg 12H SC. Adult, NOT/kg: 1432u 2hr before surgery, then daily SC.

Ribavirin. Inhln (Viratek nebulizer): 20mg/ml at 25ml/hr (190mcg/L of gas) for 12-18hr/day for 3-7 days. Oral: 7.5 mg/kg 12H. Hepatitis C, oral: 23-33kg 200mg 12H, 34-46 kg 200mg am + 400mg pm, 47-59kg 400mg 12H, 60-74kg 400mg am + 600mg pm, ≥75kg 600mg 12H; see daclatasvir, elbasvir, interferon alfa-2b, ledipasvir, ombitasvir, simeprevir.

Riboflavine. NOT/kg: 5-10mg daily oral. Organic acidosis (NOT/kg): 50-200mg daily oral, IM or IV.

Rifabutin. Pulmonary TB: 3-5 mg/kg (adult 150-300mg) daily oral. Resistant pul TB: 5-7.5 mg/kg (adult 300-450mg) daily. Mycobact avium complex: 7.5-12mg/kg (adult 450-600mg) daily; prophylaxis 5mg/kg (adult 300mg) daily.

Rifampicin. 15mg/kg (max 600mg) daily oral fasting, or IV

over 3hr (monitor AST); staph 10mg/kg (max 600mg) 12H IV. Leprosy: 15mg/kg (max 600mg) monthly. Cholestasis itch: 10mg/kg (max 600mg) daily. Prophylaxis: N.meningitidis 10 mg/kg daily (neonate), 10 mg/kg (max 600mg) 12H for 2 days; H.influenzae 10mg/kg daily (neonate), 20mg/kg (max 600mg) daily for 4 days.

Rifampin. See rifampicin.

Rifapentine. Usually 10-15 mg/kg (adult 600mg) x2/wk for 2mo, then wklly for 4 months.

Rifaximin. GI activity only. 7.5-10mg/kg (adult 200-400mg) 8H oral. Adult, NOT/kg: hepatic enceph 550mg 12H oral, irritable bowel diarrhoea: 550mg 8H oral 14 days.

Rilonacept. Adult, NOT/kg: 320mg, then 160mg wklly SC.

Rilpivirine. Adult, NOT/kg: 25mg daily oral. See also emtricitabine.

Riluzole. 1mg/kg (adult 50mg) 12H oral.

Rimantadine. 2.5mg/kg (adult 100mg) 12H oral.

Rimexolone. 1%. 1drop/eye 6H. Uveitis: 1drop 1H in daytime for 1wk, 2H for 1wk, 6H for 1wk, daily 1wk.

Riociguat. Adult, NOT/kg: 1mg 8H oral, incr by 0.5mg every 2wk to max 2.5mg 8H.

Risedronate. Osteoporosis: 0.1mg/kg (adult 5mg) daily oral; slow release (adult): 35mg weekly, 75mg twice a month, 150mg monthly. Paget's: 0.5mg/kg (adult 30mg) daily oral.

Risperidone. 0.01mg/kg (adult 0.5mg) daily, incr if reqd to max 0.15mg/kg (adult 2-4mg, max 8mg) 12H oral.

Ritodrine. Prem labour (NOT/kg): 50mcg/min, incr to 150-350mcg/min IV; then oral 10mg 2H for 24hr, 10-20mg 4-6H.

Ritonavir (RTV). See atazanavir, darunavir, efavirenz, fosamprenavir, indinavir, lopinavir, maraviroc, ombitasvir.

Ritonavir + saquinavir. 5-14kg: RTV 3mg/kg + SQV 50 mg/kg 12H oral with food; 15-39kg: RTV 2.5mg/kg + SQV 50mg/kg 12H; ≥ 40 kg: RTV 100mg + SQV 50mg/kg (adult 1000mg) 12H.

Ritonavir + tipranavir. ≥ 2 yr: RTV 150mg/m² (max 200mg) + TPV 375 mg/m² (max 500mg) 12H oral with food.

Rituximab. Leukaemia: 370mg/m² by IV infsn day1, then 500mg/m² wklly x5. Rheumatoid arthritis (adult, NOT/kg): 1g IV twice, 2wk apart.

Rivaroxaban. Adult, NOT/kg: 10mg daily oral.

Rivastigmine. Adult, NOT/kg: initially 1.5mg 12H, incr every 2wk to max 6mg 12H oral. Patch: apply 4.6mg (5cm²) daily for 4wk, then 9.5mg (10cm²) daily.

Rizatriptan. Adult, NOT/kg: 10mg oral, may repeat x1 in 2hr.

Rocuronium. 0.6-1.2mg/kg IV stat, then 0.1-0.2mg/kg boluses or 5-15mcg/kg/min.

Roflumilast. Adult, NOT/kg: 500mcg daily oral.

Rolapitant. Adult, NOT/kg: 180mg oral 1-2hr before chemo.

Romidepsin. 14mg/m² IV over 4hr on days 1, 8 and 15 of a 28-day cycle.

Romiplostim. 1-10mcg/kg weekly SC.

Ropinirole. Adult, NOT/kg: 0.25mg daily for 2 days, 0.5mg for 5 days, then 1mg daily; incr wkly to max 4mg daily oral.
Restless legs: 0.25mg (max 4mg) 2hr before bedtime.

Ropivacaine. 2-3mg/kg (adult max 200-250mg). Intrathecal: 1mg/kg (0.1ml/kg of 1%). Postop infusion 0.2-0.4mg/kg/hr (0.1-0.2ml/kg/hr of 0.2%).

Rosiglitazone. Adult, NOT/kg: 4mg daily oral, incr after 6-8 wk to 4mg 12H if reqd. See also glimepiride, metformin.

Rosuvastatin. 10mg daily oral, incr if reqd to 20mg then 40 mg at 4wk intervals.

Rotavirus vaccine (Rotarix). Live, monovalent. 1.5ml oral at 6-14wk, and at least 4wk later at 14-24wk (total 2 doses).

Rotavirus vaccine (Rotateq). Live, pentavalent. 2ml oral at 6-12wk, then at 4-10wk intervals (total 3 doses).

Rotavirus vaccine, human-bovine (RotaTeq). Live, pentavalent. 2ml oral at age 2mo, 4mo, 6mo (3 doses).

Rotigotine. Adult, NOT/kg. Parkinson's 2mg patch daily for 1wk, then 4mg daily; incr if reqd to 6-8mg daily. Restless legs 1-3mg daily.

Roxithromycin. <40kg: 4mg/kg (max 150mg) 12H oral. ≥40kg (NOT/kg): 150mg 12H or 300mg daily oral.

Rubella vaccine (Ervevax, Meruvax II) Live. >12mo: 0.5ml SC once. See also measles + mumps + rubella vaccine.

Rufinamide. 10mg/kg (adult 400mg) daily oral, incr over 1-2 wk to 45mg/kg (adult 3200mg). Lower dose if on valproate.

Rupatadine. Adult, NOT/kg: 10mg daily oral.

Ruxolitinib. Adult, NOT/kg: 15mg (up to 25mg) 12H oral.

Sacrosidase. ≤15kg 1ml or 1 full scoop (8500-u), >15kg 2ml or 2 full scoops (17000u) oral with each meal or snack.

Sacubitril + valsartan. 24/26mg, 49/51, 97/103. 1 tab 12H oral.

Salbutamol (and levalbuterol). 0.1-0.15mg/kg (adult 2-4mg) 6H oral. Inhaltn: mild resp soltn (5mg/ml, 0.5%) 0.5ml diluted to 4ml, or nebule 2.5mg/2.5ml (0.1%) 3-6H; moderate 0.5% soltn 1ml diluted to 4ml, or nebule 5mg/2.5ml (0.2%) 1-2H; severe (in ICU) 0.5% soltn undiluted continuous. Aerosol 100mcg/puff: 1-2 puff 4-6H; acute 4-8puff (<6yr) 8-12puff (>6yr). Powder 90mcg/inh: 1-2 inh 4-6H. Rotahaler: 200-400 mcg 6-8H. IM or SC: 10-20mcg/kg (adult 500mcg) 3-6H. IV in child: amp 1mg/ml at 0.3-0.6 ml/kg/hr (5-10mcg/kg/min) for 1hr, then 0.06-0.12ml/kg/hr (1-2mcg/kg/min). Preterm labour: (adult, NOT/kg): 200mcg/ml in 5%D at 3ml/hr (10 mcg/min), incr until contractions cease (usually at 3-15ml/hr), then halve dose every 6hr; max duration usually 48hr. IV infsn incompatible with aminophylline, ketamine and magnesium.

Salcatonin. Hypercalcaemia: 5u/kg 12-24H IM, SC or IV over 6-12hr. Paget's: adult 50-100u daily. Cancer bone pain: 4 u/kg (adult 200u) up to x4/day.

Salicylic acid. Cradle cap: 6% soltn (Egocappol) 12H 3-5 days. Plantar warts: 15% soltn x1-2/day, 40% medicated

disc 24-48H. See also benzoic acid + salicylic acid.

Salicylsalicylic acid. See salsalate.

Saline laxatives (Microlax, Micolette). <12mo 1.25ml, 1-2yr 2.5ml, >2yr 5ml.

Salmeterol. Aerosol, diskhaler (NOT/kg): 50-100mcg 12H.
See also fluticasone + salmeterol.

Salmonella typhi vaccine. See typhoid vaccine.

Salsalate. 10-20mg/kg (adult 0.5-1g) 6H oral.

Samarium-153. Adult: 1.0mCi/kg IV over 1min.

Sapropterin. 10mg/kg (max 20mg/kg) daily oral.

Saquinavir (SQV). See lopinavir, ritonavir. Trough $\geq$ 100-250 ng/ml.

Saracenia purpurea (Sarapin). Adult, NOT/kg: 2-10ml nerve block, 5-10ml local infiltration.

Sargramostim (GM-CSF, Leucomax). 3-5mcg/kg daily SC, or IV over 6hr. Keep WCC 5,000-10,000/mm³.

Saxagliptin. Adult, NOT/kg: 2.5-5mg daily oral. See also metformin + saxagliptin.

Scopolamine. See hyoscine hydrobromide.

Sebelipase alfa. <6mo: 1mg/kg (max 3mg/kg) IV over 2hr weekly. >6mo: 1mg/kg IV over 2hr every other wk.

Secbutobarbitone. 0.3-0.6mg/kg (adult 15-30mg) 6-8H, or 1-4mg/kg (adult 50-200mg) nocte oral.

Secobarbital sodium. See quinalbarbitone.

Secretin. 1cu = 4chr units. 1-2cu/kg slow IV.

Secukinumab. Adult, NOT/kg 150mg wk 0,1,2,3,4 then 4wkly SC; 300mg dose if reqd.

Selegiline. Adult, NOT/kg: 10mg daily, oral. Transdermal patch: 6mg daily; incr to max 9-12mg daily if reqd.

Selenium sulphide. 2.5% shampoo x2/wk for 2wk.

Selexipag. Adult, NOT/kg: 200mcg 2H oral, incr if reqd to max 1600mcg 12H.

Senna, Sennoside. Tab 7.5mg, granules 15mg/5ml. Daily (NOT/kg): 6mo-2yr 7.5mg, 3-10yr 7.5-15mg, >10yr 1-30mg.

Sermorelin (GHRH). 1mcg/kg fasting in morning IV.

Sertaconazole. 2% cream: apply 12H for 4wk.

Sertindole. Adult, NOT/kg 4mg daily, incr to 12-24mg daily oral.

Sertraline. 0.5mg/kg (adult 25mg) daily oral, incr if reqd to 1-2mg/kg (adult 50-100mg) daily; may give 3-4mg/kg (adult 150-200mg) daily for up to 8wk.

Sevelamer carbonate. 20-40mg/kg (adult 800-1600mg) 8H oral, titrated to serum phosphate 1.1-1.8mmol/L.

Sevoflurane. 7% (child) 5% (adult) induction, then 0.5-3%.

Sildenafil. Adult sexual dysfn: 25-100mg (NOT/kg) oral 1hr before sexual activity (max once/day). Pul hypertensn: oral 0.3mg/kg 3-6H incr until effective or systemic hypotension (usual max 2-3 mg/kg/dose); adult, NOT/kg usually 20mg 8H; at 2ppm NO (1hr before stopping) 0.4mg/kg oral once. IV infsn: 0.4 mg/kg over 3hr, then 1.6mg/kg/day.

- Silodosin.** Adult, NOT/kg: 8mg daily oral.
- Siltuximab.** 11mg/kg IV over 1hr every 3wk.
- Silver nitrate, stick.** Apply daily to affected area only.
- Silver sulfadiazine 1% + chlorhexidine 0.2%.** Cream: apply in 3-5mm layer.
- Simeprevir.** Adult, NOT/kg: 150mg daily + sofosbuvir 400mg daily ($\pm$ ribavirin 500-600mg 12H) oral for 12wk.
- Simethicone.** See aluminium hydroxide compound.
- Simvastatin.** Adult, NOT/kg: 10mg daily oral, incr 4wkly if reqd to max 80mg daily; max 10mg/day with amiodarone, diltiazem or verapamil; 20mg/day with amlodipine or ranolazine. See also ezetimibe + simvastatin.
- Simvastatin + sitagliptin.** 10/50mg, 20/50, 40/50, 10/100, 20/100, 40/100 tab. See simvastatin doses.
- Sincalide.** Contract gallbladder: 0.02mcg/kg IV over 1min, then 0.04mcg/kg after 15min if reqd; or 0.1 mcg/kg IM; or 0.12mcg/kg in 100ml saline at 2ml/min. Pancreas test: 0.25 u/kg secretin IV over 60min, plus sincalide 0.02mcg/kg IV infsn during 2nd 30min of secretin infsn.
- Sinecatechins.** 15% ointment: apply 8H for up to 16wk.
- Sipuleucel-T.** Adult, NOT/kg: ≥ 50 million treated autologous CD54+ cells IV over 60min on 3 occasions 2wk apart.
- Sirolimus.** 3mg/m² (adult 6mg) stat, then 1mg/m² (adult 2mg) daily oral.
- Sitagliptin.** 2mg/kg (adult 100mg) daily oral. See also metformin + sitagliptin, and simvastatin + sitagliptin.
- Sitaxentan.** 2mg/kg (adult 100mg) daily oral.
- Sodium.** Deficit (ml saline) = $Wt(kg) \times 4 \times (140 - [Na]) / \% \text{ saline}$. To incr serum Na by 0.5mmol/L/hr (max safe rate), infusn rate (ml/hr) = $2 \times Wt(kg) / (\% \text{ saline infused})$; hours of infusion = $2 \times (140 - \text{serum Na}) / 0.5$. 4ml/kg of X% saline raises serum Na by Xmmol/L. Need 2-6 mmol/kg/day. NaCl MW = 58.45, 1g NaCl = 17.1mmol Na, NaCl 20% = 3.4mmol/ml.
- Sodium alginate.** See alginic acid.
- Sodium aurothiomalate.** See aurothiomalate.
- Sodium benzoate.** Neonate: 250mg/kg over 2hr stat, then 10-20mg/kg/hr IV.
- Sodium bicarbonate.** See bicarbonate.
- Sodium calcium edetate (EDTA).** 25-40mg/kg 12H IM or IV over 1hr for 5 days; repeat after 3 days if reqd. With dimer-caprol: 12.5mg/kg 4H for 3-7 days.
- Sodium cellulose phosphate (Calcisorb).** Adult, NOT/kg 5mg 8H oral.
- Sodium chloride.** See sodium.
- Sodium citrate.** Constipation (adult, NOT/kg): usually 450mg in 5ml as enema, often with sodium lauryl sulphoacetate, glycerol, sorbitol or sorbic acid.
- Sodium citrotartrate.** 40-80mg/kg (adult 2-4g) in 50ml water 8-12H oral.
- Sodium clodronate.** See clodronate.

Sodium cromoglycate. See cromoglycate.

Sodium feredetate. See ferrous salts.

Sodium ferric gluconate. Fe 12.5mg/ml. 0.05ml/kg (adult 2ml) test dose IV over 1hr, then 0.25ml/kg (adult 10ml) IV over 1hr with each dialysis (usually for 8 doses).

Sodium fluoride. NOT/kg: <2yr 0.55mg oral daily, 2-4yr 1.1 mg, >4yr 2.2mg. Osteoporosis, Paget's, bone secondaries in Adult, NOT/kg: 20-40mg 8-12H.

Sodium fusidate. 175mg = 250mg fusidic acid. Tablets: 10-15mg/kg (adult 250-500mg) 8H oral. IV over 2-8hr: 10mg/kg (adult 500mg) 8H; severe infxn 15mg/kg (adult 750mg). Peak level 30-200umol/L ($\times 0.52$ = mcg/ml). Suspensn: fusidic acid.

Sodium hyaluronate. Adult, NOT/kg. Cystitis 800mcg/ml: 50ml into bladder wkly x4, then 4wkly. Ophthalmic: 10-15 mg/ml (1-1.5%) 0.2-0.6ml into anterior chamber; 0.18% drops 1/eye as reqd. Osteoarthritis 10-15mg/ml: 2-2.5ml intra-articular wkly x3-5.

Sodium nitrite. 3%: 0.2ml/kg (max 10ml) IV over 5 min.

Sodium nitroprusside. IV. <30kg: 3mg/kg in 50ml 5%D at 0.5-4 ml/hr (0.5-4mcg/kg/min). >30kg: 3mg/kg made to 100ml in 5%D at 1-8ml/hr (0.5-4mcg/kg/min). If used for >24hr, max rate 4mcg/kg/min. Max total 70mg/kg with normal renal function (or sodium thiocyanate <1725 umol/L, $\times 0.058$ = mg/L). T $\frac{1}{2}$ 2min. Protect from light.

Sodium oxybate. Narcolepsy (NOT/kg): 2.25g at bedtime, repeated 2-4hr later; incr if reqd by 0.75g every 2wk to max 4.5g + 4.5g (9g per night).

Sodium phenylbutyrate. 10-13g/m²/day divided into equal amounts with each feed or meal, oral.

Sodium phosphate. See phosphate, sodium.

Sodium picosulphate. 2.5mg (1-4yr), 2.5-5mg (4-10yr), 5-10 mg (>10yr) at night oral.

Sodium polystyrene sulphonate (Resonium). 0.3-1 g/kg (adult 15-30g) 6H NG (give lactulose) or PR.

Sodium pyrrolidone carboxylate. 2.5% cream: apply prn.

Sodium salicylate. 1g = 1.1g aspirin.

Sodium stibogluconate. Soltn 100mg/ml of pentavalent antimony. 20mg/kg (usual max 850mg) daily IV over 10min for 20 days (visceral) or at least 4wk (mucocutaneous); 10-15 mg/kg 12H if toxicity. Early cutaneous: infiltrate lesions with 1-3ml, repeat x1-2 if reqd after 1-2 days. Severe cutaneous: 20mg/kg daily IV over 10min until 3 days after cure (usually), 4wk after (*L.braziliensis*), or 3mo after (*L.amazonensis*).

Sodium tetradecyl sulphate. NOT/kg: 0.25-1ml per vein as 1% (max 10 small veins) or 3% (max 4 large veins).

Sodium thiosulphate. 1ml/kg (adult 50ml) 25% soltn IV over 10min.

Sodium valproate. 5mg/kg (adult 200mg) 12H oral or IV, incr if reqd to max 20mg/kg (adult 1g) 8-12H. Status: 20-40mg/kg IV over 5min, then 1-5mg/kg/hr. Slow-release 15-60mg/kg

(adult 1000-3000mg) daily. Level 2hr after dose 350-900 umol/L ($\times 0.14 = \text{mg/L}$).

Sofosbuvir 400mg + velpatasvir 100mg. Adult, NOT/kg: 1 tab daily oral for 12wk $\pm$ ribavirin. See daclatasvir, ledipasvir, ombitasvir, simeprevir.

Solifenacin. Adult, NOT/kg: 5-10mg daily oral.

Solifenacin 6mg + tamsulosin 400mcg. Adult, NOT/kg: 1 tab daily oral.

Somatorelin. Diagnostic: 1mcg/kg IV. Therapy: 30mcg/kg daily at bedtime SC.

Somatostatin. See octreotide.

Somatrem. 4u/m^2 3 days a wk IM.

Somatropin. 1mg = 3iu. Usually 0.5-1mg/ m^2 on 5-7 days a wk SC, or 1-2mg/ m^2 on 3 days a wk IM. Short bowel: 0.1mg/kg (max 8mg) daily SC.

Sonidegib. Adult, NOT/kg: 200mg daily oral.

Sorafenib. Adult, NOT/kg: 400mg 12H (or 24-48H) oral.

Sorbitol 70%. 0.2-0.5ml/kg (adult 20-30ml) 8-24H oral. With activated charcoal: 1g/kg (1.4ml/kg) NG, $\times 1-2$.

Sorbolene cream; pure, with 10% glycerin, or with 5% or 10% olive oil or peanut oil. Skin moisturiser: apply prn.

Sotalol. IV: 0.5-2mg/kg (adult 25-120mg) over 10min 6H.

Oral: 1-4mg/kg (adult 50-160mg) 8-12H.

Sparfloxacin. 10mg/kg (adult 400mg) stat, then 5mg/kg (adult 200mg) daily oral.

Spectinomycin. 40-80mg/kg (adult 2-4g) IM once.

Spinosad. 0.9% to dry hair 10min then rinse, repeat in 1wk.

Spironolactone. Oral (NOT/kg): 0-10kg 6.25mg 12H, 11-20kg 12.5mg 12H, 21-40kg 25mg 12H, over 40kg 25mg 8H.

Female hirsutism 50mg 8H. IV: see potassium canrenoate.

Stanolone. 2.5% gel. Male: apply 5-10g daily to a large area of skin and allow 5 min to dry. Female (lichen sclerosis): apply 2.5g to vulva on alternate days.

Stanozolol. 0.05-0.2mg/kg oral (adult 2.5-10mg) daily at first, then every 2-3 days.

Stavudine (d4T). 0.5mg/kg (<14days) 1mg/kg (<30kg), 30mg (30-59kg), 40mg ($\geq 60\text{kg}$) 12H oral. Slow rel (adult, NOT/kg): 75mg (<60kg), 100mg ($\geq 60\text{kg}$) daily oral.

Sterculia. NOT/kg: 3.5-7g 12-24H oral. See also frangula.

Stibogluconate. See sodium stibogluconate.

Stilboestrol. Ca breast (NOT/kg): 10-20mg daily oral. Ca prostate: 1-3mg daily oral or IV.

Stiripentol. Incr over 3 days to 15mg/kg 8H oral, max 35mg/kg 8H (max 4g/day) oral.

Streptokinase (SK). Short term (myoc infarct): 30,000u/kg (max 1,500,000u) IV over 1hr, repeat if occlusion recurs <5 days. Long term (DVT, pul emb, art thrombosis): 2,000 u/kg (max 100,000u) IV over 10min, then 1000u/kg/hr (max 100,000u/hr); stop heparin and aspirin, if PTT $< 2\times$ normal at 4hr give extra 10,000u/kg (max 500,000u) IV over 30min,

stop SK if PTT >x5 normal then give 1000u/kg/hr. Local
 infsn: 50 u/kg/hr (continue heparin 10-15u/kg/hr). Blocked IV
 cannula: 5000u/kg in 2ml in cannula for 2hr then remove,
 may repeat x2. Alteplase usually preferable.

Streptomycin. 20-30mg/kg (max 1g) IM daily.

Streptozocin. 1-1.5g/m² wkly IV.

Strontium ranelate. Adult, NOT/kg: 2g daily at bedtime.

Strontium-89. 1.5-2.2 MBq/kg (40-60µCi/kg) IV over 2min.

Succimer. 350mg/m² 8H for 5 days, then 12H x14 days oral.

Succinylcholine. See suxamethonium.

Sucralfate. 1g tab (NOT/kg): 0-2yr quarter tab 6H, 3-12 yr half
 tab 6H, >12yr 1 tab 6H oral.

Sucroferic oxyhydroxide. Adult, NOT/kg: 500mg 8H oral
 adjusted wkly to serum phosphate 1.1-1.8mmol/L.

Sucrose. Analgesia in infants: 0.17g/kg (0.5ml/kg of 33%
 soltn) 2min before procedure.

Sufentanil. 2-50mcg/kg slow IV; may then infuse so that total
 dose is 1mcg/kg/hr of expected surgical time.

Sugammadex. 2mg/kg (after spontaneous recovery), 4mg/kg
 (if 1-2 post-tetanic counts), 16mg/kg for immediate reversal
 of rocuronium (but not vecuronium).

Sulbactam. See ampicillin + sulbactam.

Sulconazole. 1% cream: apply 12H for 3wk after cure.

Sulfacetamide. See sulphacetamide.

Sulfadiazine. 50mg/kg (max 2g) 6H slow IV.

Sulfadoxine. See pyrimethamine + sulphadoxine.

Sulfamethizole. See sulphamethizole.

Sulfamethoxazole + trimethoprim. See cotrimoxazole.

Sulfametopyrazine. 40mg/kg (adult 2g) wkly oral.

Sulfasalazine. See sulphasalazine.

Sulfinpyrazone. See sulphinpyrazone.

Sulfisoxazole. See sulphafurazole.

Sulindac. 4mg/kg (adult 200mg) 12H oral.

Sulphacetamide. 100mg/ml 1 drop/eye 2-3H during the day.

Sulphadoxine. See pyrimethamine + sulphadoxine.

Sulphafurazole. 75mg/kg (adult 4g) stat, then 35mg/kg (adult
 1.5g) 4-6H oral.

Sulphamethizole. 10mg/kg (adult 0.5-1g) 6H oral.

Sulphamethoxazole + trimethoprim. See cotrimoxazole.

Sulphasalazine. Active colitis: 20mg/kg 6-12H (max 4g/day)
 oral; remission 7.5mg/kg (max 0.5g) 6-8H, suppos (NOT/kg)
 adult 0.5-1g 12H. Arthritis: 5mg/kg 12H, incr if reqd to
 10mg/kg 8-12H (max 2g/day).

Sulphinpyrazone. 2-3mg/kg (max 200mg) 6-12H oral.

Sulpiride. 4mg/kg (adult 200mg) 12H, slow incr if reqd to 4-
 24mg/kg (adult 0.2-1.2g) 12H oral.

Sulthiame. 1mg/kg (adult 50mg) 8-12H oral, may incr to 5
 mg/kg (adult 200mg) 8H.

Sumatriptan. Oral: 1-2mg/kg (adult 50-100mg) stat, may
 repeat x2. SC or needle-free: 0.12mg/kg (max 6mg) stat,

- may repeat x1 after 1hr. Nasal: 10-11mg/nostril, may repeat x1 after 2hr. Patch 6.5mg: 1-2/day 2hr apart. See naproxen.
- Sunitinib.** Adult, NOT/kg: 50mg (37.5-87.5mg) daily oral for 4wk, then 2wk off.
- Surfactant.** See beractant (Survanta), calfactant (Infasurf), colfosceril palmitate (Exosurf), poractant alfa (Curosurf), pumactant (ALEC).
- Suvorexant.** Adult, NOT/kg: 10-20mg at night oral.
- Suxamethonium.** IV: neonate 3mg/kg, child 2mg/kg, adult 1mg/kg. IM: double IV dose.
- Tacalcitol.** 4mcg/g oint, lotion: apply sparingly at bedtime (max 10g oint or lotion per day).
- Tacrine.** Adult, NOT/kg: 10mg 6H oral for 6wk, then incr if reqd by 10mg every 6wk to max 40mg 6H.
- Tacrolimus ointment.** 2-16yr: apply 0.03% sparingly 12H for max 3wk, then daily. >16yr: apply 0.1% sparingly 12H for max 3wk, then 0.03% 12H.
- Tacrolimus.** IV infusion: 2mg/m²/day. Oral: 3mg/m² 12H. Trough level: whole blood 10-15ng/ml (sent to Austin daily at 1000 from RCH).
- Tadalafil.** Adult, NOT/kg: 10mg (range 5-20mg) oral 30min before sex (max x1/day), or 2.5mg (max 5mg) daily. Benign prostatic hypertrophy: 5mg daily. Pul hyp: see ambrisentan.
- Tafamidis.** Adult, NOT/kg: 20mg daily oral.
- Tafluprost.** 15mcg/ml: 1 drop/eye at bedtime.
- Taliglucerase.** 60u/kg IV over 1-2hr every 2wk.
- Talimogene.** Adult, NOT/kg: up to 4ml injected into lesions using 10⁶ PFU/ml wk0, 10⁸ PFU/ml wk3 and then every 2wk
- Tamoxifen.** Adult, NOT/kg: 20mg daily, incr to 40mg daily if no response after 1mo.
- Tamsulosin.** Adult 400mcg daily after breakfast oral. See also dutasteride + tamsulosin. See solifenacin.
- Tapentadol.** 1-2mg/kg (adult 50-100mg) 4-6H oral. Slow-rel (adult, NOT/kg): 100-250mg 12H oral.
- Tar.** See coal tar.
- Tasimelteon.** Adult, NOT/kg: 20mg at bedtime. oral
- Tasonermin.** Isolated limb perfusion: arm 3mg, leg 4mg.
- Tavaborole.** 5% soltn to affected nails daily for 48wk.
- Tazarotene.** 0.05%, 0.1% gel, cream: apply a thin layer to affected area daily (or on alternate days) in the evening.
- Tazobactam.** See piperacillin + tazobactam.
- Tedizolid.** Adult, NOT/kg: 200mg daily oral or IV.
- Teduglutide.** 0.05mg/kg daily SC.
- Tegafur + gimeracil + oteracil.** 15/4.35/11.8mg, 20/5.8/15.8 cap. >18yr: 25mg/m² of tegafur (20mg/m² or 15mg/m² if toxicity) oral on days 1-21 of each 28 day cycle.
- Tegafur 100mg + uracil 224mg.** 100mg/m² tegafur + 224 mg/m² uracil (with 30mg calcium folinate) 8H oral for 28 days, 7 days off, then repeat cycle. See also gimeracil.
- Tegaserod.** Adult, NOT/kg: 6mg 12H oral before a meal.

Teicoplanin. 250mg/m² (adult 800mg) IV over 30min stat, then 125mg/m² (adult 400mg) IV or IM daily. Severe infn: 250mg/m² 12H x3 doses, then 250mg/m² IV or IM daily.

Telaprevir. 15mg/kg (adult 750mg) 8H oral.

Telavancin. 10mg/kg IV over 1hr daily.

Telbivudine. Adult, NOT/kg: 600mg daily oal.

Telithromycin. Adult, NOT/kg: 800mg oral daily.

Telmisartan. 1mg/kg (adult 40mg) daily, incr if reqd to 2mg/kg (adult 80mg) daily oral. See also hydrochlorothiazide.

Temazepam. 0.3mg/kg (adult 20-40mg) oral.

Temocillin. 25-50mg/kg (adult 1-2g) 12H IV or IM.

Temoporfin. 150mcg/kg IV over 10min; 96hr later give 652 nm laser for about 200 sec to give 20J/cm²; repeat once after 4wk if reqd.

Temozolomide. 200mg/m² daily oral for 5 days per 28 day cycle (150mg/m² for first cycle if previous chemotherapy).

Temsirolimus. Adult, NOT/kg: 25mg IV over 1hr wkly.

Tenecteplase. 1mg = 200u. Myocar infarct (adult): 100u/kg (max 10,000u) IV over 10sec once; also give aspirin 150-325mg/day, and heparin to maintain APTT 50-75sec.

Teniposide. 100-150mg/m² IV over 1hr wkly.

Tenofovir (TDF). 300mg of tenofovir DF = 245mg tenofovir D. <35kg: 8-10mg/kg daily oral; ≥35kg: 300mg daily oral. See also efavirenz, emtricitabine and cobicistat.

Tenoxicam. 0.2-0.4mg/kg (adult 10-20mg) daily oral.

Terazosin. 0.02mg/kg test, then 0.04-0.4mg/kg (adult 2-20 mg) daily oral.

Terbinafine. Tinnea corp, ped, ung: 62.5mg (10-20kg), 125 mg (20-40kg), 250mg (adult) daily oral. Tinnea capitis: 125 mg (10-25kg), 187.5mg (25-35kg), 250mg (>35kg) daily. 1% cream, gel: apply 12-24H to dry skin.

Terbutaline. Oral: 0.05-0.1mg/kg (adult 2.5-5mg) 6H. SC: 5-10mcg/kg (adult 0.25-0.5mg). IV: child 3-6mcg/kg/min for 1hr, then 0.4-1mcg/kg/min; adult 0.25mg stat over 10min, then 1-10mcg/kg/hr. Inhaltn: mild resp soltn (1%, 10mg/ml) 0.25ml diluted to 4ml 3-6H; moderate 0.5ml of 1% diluted to 4ml, or respule 5mg/2ml 1-2H; severe (in ICU) undiluted continuous. Aerosol 250mcg /puff: 1-2 puffs 4-6H.

Terfenadine. 30mg (6-12yr), 60mg (adult) 12H oral.

Teriflunomide. Adult, NOT/kg: 7-14mg daily oral.

Teriparatide. Adult, NOT/kg: 20mcg SC daily.

Terlipressin. 0.04mg/kg (adult 2mg) IV, then 0.02-0.04mg/kg (adult 1-2mg) 4-6H for max 72hr. Slow onset, long effect (T_{1/2} 6hr): continuous infsn may cause necrosis.

Tesamorelin. Adult, NOT/kg: 2mg SC daily.

Testolactone. 5-10mg/kg (max 250mg) 6H oral.

Testosterone. NOT/kg. Esters: 100-500mg IM every 2-4wk. Implant: 8mg/kg (to nearest 100mg) every 16-24wk. Undecanoate: 40mg daily oral, incr to 80-120mg daily; depot 750 mg IM, after 4wk, then every 10wk. 1% gel: 5g tube (50mg

- testosterone) to skin daily. Transdermal patch: 2.5-5mg daily; gel 40-50mg. Metered dose pump: 40-60mg daily. 30mg buccal tab: applied just above incisor 12H. Intranasal gel 5.5mg in each nostril 8H. Postmenopausal breast cancer: 100mg x2-3/wk IV or IM. Testosterone level: <16y 5-10 nmol/L, >16y 10-30nmol/L.
- Tetanus toxoid.** 0.5ml IM stat, 6wk later, and 6mo later. Boost every 10yr, or if contaminated wound. See also diphtheria compound vaccines.
- Tetrabenazine.** Adult, NOT/kg: 12.5 daily oral; slow increase if required to max 37.5mg 8H oral.
- Tetracaine.** See amethocaine.
- Tetracosactrin zinc injection (Synacthen Depot).** 600 mcg/m² (max 1mg) IM every 1-7 days.
- Tetracycline.** >8yr (NOT/kg): 250-500mg 6H oral. Acne (NOT/kg): 500mg 12H, reducing to 250mg 12H. Eye: apply 2-8H. See also rolitetracycline.
- Tetrahydrobiopterin.** Defective synthesis: 20mg/kg daily oral. Defective regeneration: 5mg/kg 6H oral. Loading test: 20 mg/kg oral, 2mg/kg IV.
- Tetrahydrozoline.** 0.05%: 1 drop/eye 8-12H. See also macrogol + tetrahydrozoline.
- Thalidomide.** 4mg/kg (adult 200mg) 12H oral, reducing over 2-4wk to 0.5-1mg/kg (adult 25-50mg) 12H.
- THAM.** See tromethamine.
- Theophylline.** 80mg theophylline = 100mg aminophylline). Load: 8mg/kg (max 500mg) oral. Maintenance: 1st wk life 2mg/kg 12H; 2nd wk 3mg/kg 12H; 3wk-12mo ((0.1 x age in wk) + 2.7) mg/kg 8H; 1-9yr 4mg/kg 4-6H, or 10mg/kg slow rel 12H; 10-16yr or adult smoker 3mg/kg 4-6H, or 7mg/kg 12H slow rel; adult non-smoker 3mg/kg 6-8H; elderly 2mg/kg 6-8H. Serum level: neonate 60-80umol/L, asthma 60-110 (x0.18 = mcg/ml).
- Thiabendazole.** 25mg/kg (max 1.5g) 12H oral 3 days.
- Thiamazole.** See methimazole.
- Thiamine.** Beriberi: 1-2mg/kg IV, IM or oral daily. Metabolic disease (NOT/kg): 100mg 8H IV, IM, SC, oral.
- Thiethylperazine.** >10kg: 0.2mg/kg (adult 10mg) 8-24H oral, IM, or PR.
- Thioguanine.** 100mg/m² daily oral; or 100mg/m² 12H for 5-7 days.
- Thiopental.** See thiopentone.
- Thiopentone.** 2-5mg/kg slowly stat (beware hypotension). IV infsn: amp 25mg/ml at 0.04-0.2ml/kg/hr (1-5mg/kg/hr). Level 150-200umol/L (x0.24 = mcg/ml).
- Thioridazine.** 0.5-3mg/kg (adult 25-150mg) 6-8H oral or IM.
- Thiosulphate.** See sodium thiosulphate.
- Thiotepa.** 10-14mg/m² IV every 1-4wk.
- Thiotepa.** 1 in 2000: 1 drop/eye 4-6H for 6wk.
- Thiothixene.** >12yr (NOT/kg): initially 2mg 8H oral, slow incr

to 2-20mg per dose.

Threonine. 15-30mg/kg (adult 0.75-1.5g) 8H oral.

Thrombin glue. 10,000u thrombin in 9ml mixed with 1ml 10% calcium chloride in syringe 1, 10ml cryoprecipitate in syringe 2: apply to bleeding sites together. Do not inject.

Thrombin, topical. 100-2000u/ml onto bleeding surface.

Thymidine. 75g/m² every 4-6wk IV over 24hr.

Thymoxamine. Adult, NOT/kg: 40-80mg 6H oral.

Thyrotropin alfa. Adult, NOT/kg: 0.9mg IM 24H x2 doses, or 72H x3 doses.

Thyroxine, levothyroxine (LT4). 1.6mcg/kg (adult 100-200 mcg) daily oral, titrated. IV: 1.2mcg/kg daily. See also liothyronine (LT3), liotrix (LT3/LT4).

Tiagabine. 0.1mg/kg (adult 5mg) 12H oral, incr wkly to 0.1-0.2 mg/kg (adult 5-10mg) 8H; 0.2-0.3mg/kg (adult 10-15mg) 8H if on carbamazepine, phenobarb, phenytoin, primidone.

Tiaprofenic acid. 2-4mg/kg (adult 100-200mg) 8H oral.

Tibolone. Adult, NOT/kg: 2.5mg daily oral.

Ticagrelor. Adult, NOT/kg: 180mg stat, then 90mg 12H oral.

Ticarcillin. 50mg/kg (adult 3g) 8H (1st wk life) 6H (>1wk) IV. Severe infn: 50mg/kg 6H (1st wk life) 4H (>1wk) or constant infsn. Cystic fib: 100mg/kg (max 6g) 8H IV.

Ticarcillin + clavulanic acid. Dose as for ticarcillin.

Tick-borne encephalitis vaccine. Inanimate. 0.5ml IM stat, after 4-12wk, and after 9-12mo. Boost every 3-6yr.

Ticlopidine. 5mg/kg (adult 250mg) 12H oral.

Tigecycline. 2mg/kg (adult 100mg) IV over 1hr stat, then 1 mg/kg (adult 50mg) IV over 30min 12H.

Tilactase. 200u/drop: 5-15 drops/L added to milk 24hr before use. 3300u/tab: 1-3tabs with meals oral.

Tiludronate. Adult 400mg daily for 12 wk oral.

Tiludronic acid. See tiludronate disodium.

Timolol. 0.1mg/kg (adult 5mg) 8-12H, incr to max 0.3mg/kg (adult 15mg) 8H. Eye drops (0.25%, 0.5%): 1 drop/eye 12-24H; see also bimatoprost + timolol, latanoprost + timolol.

Timolol 5mg/ml + travoprost 40mcg/ml. 1drop/eye daily.

Tinidazole. Giardia, trichomonas: 50mg/kg (adult 2g) daily for 2 days oral, or 25mg/kg (adult 1g) daily x5 days. Amoebiasis: 50mg/kg (adult 2g) daily for 3-5 days, usually followed by diloxanide furoate 10mg/kg (adult 500mg) 8H x10 days.

Tinzaparin. 1mg = 75 anti-Xa IU. Prophylaxis: 50u/kg SC 2hr before surgery, then daily for 7-10 days. Treatment: 175u/kg SC daily for at least 6 days.

Tioconazole. 280mg/ml: apply to nails 12H for 6-12mo.

Tioguanine. Usually 200mg/m² daily oral for 5-20 days.

Tiopronin. 3-10mg/kg (adult 150-500mg) 6-8H oral.

Tiotropium. Inhaled daily NOT/kg: cap 18mcg; MDI 5mcg. See olodaterol.

Tipiracil. See trifluridine.

Tipranavir (TPV). See ritonavir. Resistant HIV-1 trough

≥20,500 ng/ml.

Tirilazad. 1.5mg/kg 6H IV over 30min.

Tirofiban. 0.4mcg/kg/min for 30min, then 0.1mcg/kg/min for 2-5 days; also give heparin to APTT x2 normal.

Tissue plasminogen activator. See alteplase.

Tizanidine. 0.01mg/kg (adult 0.5mg) 8H, incr gradually to 0.1-0.25mg/kg (adult 6-12mg) 8H oral.

Tobramycin. IV or IM. 1wk-10yr: 8mg/kg day 1, then 6 mg/kg daily. >10yr: 7mg/kg day 1, then 5mg/kg (max 240-360mg) daily. Neonate, 5mg/kg dose: <1.2kg 48H (0-7 days of life), 36H (8-30 days), 24H (>30 days); 1.2-2.5kg 36H (0-7 days of life), 24H (>7 days); term 24H (0-7 days of life), then as for 1wk-10yr. Trough level <1.0mg/L. Inhaltn alternate months: 80mg in 4ml 12H; DPI 112mg 12H; PARI, TOBI 300mg 12H. Eye: 1 drop or 1cm cream 4H. See also dexamethasone.

Tocainide. 5-10mg/kg (max 400-800mg) 8-12H IV over 30min or oral.

Tocilizumab. 12mg/kg (<30kg) 8mg/kg (>30kg) IV over 1hr every 2wk.

Tocopherol. See alpha-tocopheryl acetate, and vitamin E.

Tofacitinib. Adult, NOT/kg: 5mg 12H oral.

Tolazamide. 2-5mg/kg (adult 100-250mg) 6-24H oral.

Tolazoline. Newborn: 1-2mg/kg slowly stat (beware hypotension), then 2-6mcg/kg/min (0.12-0.36mg/kg/hr) IV. Note: 1-2 mg/kg/hr too much (Ward, Pediatrics 1986;77:307-15).

Tolbutamide. Adult, NOT/kg: initially 1g 12H oral, often reducing to 0.5-1g daily.

Tolcapone. Adult, NOT/kg: 100mg 8H oral; if no response, try maximum dose of 200mg 8H. Monitor ALT and AST.

Tolfenamic acid. 4mg/kg (adult 200mg) oral, may repeat once after 2hr.

Tolmetin. 5-10mg/kg (adult 400-600mg) 8H oral.

Tolnaftate. 1% cream, ointmnt, powdr, soltn: apply 8-12H.

Tolterodine. 0.05mg/kg (adult 2mg) 12H oral. Slow rel: adult 2-4mg daily oral.

Tolvaptan. Adult, NOT/kg: 15mg (max 60mg) daily oral.

Topiramate. 0.5mg/kg (adult 25mg) daily oral, incr wkly if reqd to 3-5mg/kg (adult 100-200mg) 12H; max 15mg/kg (max 1g) 12H. Slow-rel: same totl dose given daily. See phentermine.

Topotecan. 1.5mg/m² daily x5 IV over 30min, repeat every 3wk for at least 4 courses.

Torasemide. 0.1-1mg/kg (adult 5-50mg) daily oral or IV. Rarely up to 4mg/kg (adult 200mg) daily in renal failure.

Toremifene. Adult, NOT/kg: 60mg daily oral.

Torseamide. See torasemide.

Tositumomab. Dosimetric dose (adult, NOT/kg): 450mg in 50ml saline IV over 60min, then I¹³¹ (5mCi) tositumomab (35mg) in 30ml saline IV over 20min. Therapeutic dose based on response to dosimetric dose and platelet count.

Trabectedin. Premed with dexamethasone 0.4mg/kg (max

20mg) IV. Sarcoma 1.5mg/m² IV over 24hr every 3wk; ovarian cancer 1.1mg/m² IV over 3hr every 3wk (given after pegylated liposomal doxorubicin 30mg/m² IV over 15min).

Tramadol. 2-3mg/kg (adult 50-100mg) stat, then 1-2mg/kg (adult 50-100mg) 4-6H (usual max 400mg/day, up to 600 mg/day) oral or IV over 3min. Slow-release (adult, NOT/kg): up to 8mg/kg (max 400mg) daily. IV infsn 2-8mcg/kg/min.

Tramazoline. Nasal: 82mcg each nostril x3-6/day. See also dexamethasone + tramazoline.

Trametinib. Adult, NOT/kg: 2mg daily oral with dabrafenib.

Trandolapril. 0.01-0.1mg/kg (adult 0.5-4mg) daily oral.

Tranexamic acid. Oral: 15-25mg/kg (adult 1-1.5g) 8H for ≤5 days. IV: 10-15mg/kg (adult 0.5-1g) 8H; surgery for cyanotic congenital heart disease 100mg/kg load, then 10mg/kg/hr.

Tranlycypromine. 0.2mg/kg (adult 10mg) 8-12H oral.

Trastuzumab. 4mg/kg IV over 90min load, then 2mg/kg IV over 30min wkly. Early cancer after chemo: 8 mg/kg IV over 90min, then 6mg/kg IV over 90min every 3wk.

Travoprost. 40mcg/ml (0.004%): 1drop/eye in evening. See also timolol + travoprost.

Trazodone. 1-4mg/kg (adult 50-200mg) 8H oral. Slow rel (adult, NOT/kg): 75-150mg each evening oral, incr by 75mg every 3 days to 375-600mg daily.

Treosulfan. Adjust dose according to response. 3-8g/m² IV over 30min every 1-3wk. Adult, NOT/kg: 4wk cycles of 250mg 6H oral for 2wk, then 2wk off.

Treprostinil. 1.25ng/kg/min SC or IV infsn, incr each wk by 1.25-2.5ng/kg/min to max 40-160ng/kg/min. Adult (NOT/kg): ER tabs 0.25-21mg 12H oral; inhaltn (1.74mg/2.9ml) 3 breaths 6H incr wkly to 9 breaths (54mcg) 6H.

Tretinoin. 22.5mg/m² 12H oral. Cream or lotion 0.05%, gel 0.01%: apply daily for 3-4 months, then x1-3/wk.

Triamcinolone. Joint, tendon (NOT/kg): 0.5-20mg (up to 40 mg) stat. IM: 0.05-0.2mg/kg every 1-7 days. Cream or ointment 0.02%, 0.05%: apply sparingly 6-8H. Nasal: 55mcg spray 1-2/nostril daily. Triamcinolone has no mineralcorticoid action, 1mg = 5mg hydrocortisone in glucocorticoid action. See also gramicidin combination cream and ointment.

Triamterene. 2mg/kg (adult 100mg) 8-24H oral. See also benzthiazide + triamterene.

Triazolam. 0.005-0.01mg/kg (adult 0.125-0.5mg) at night oral. 30 min preop: 0.01-0.03 mg/kg (adult 0.5mg) oral.

Tribavirin. See ribavirin.

Triclofos. 25-30mg/kg (adult 0.5-1g) at bedtime oral.

Triclosan. 0.5%-5% lotion: 2ml to wet skin for 30sec, rinse and repeat. Bath oil: 20ml in 20cm bath, soak 15min.

Trientine. 10mg/kg (adult 500mg) 6-12H oral.

Triethylenethiophosphoramidate. See thiotepa.

Trifluoperazine. 0.02-0.4mg/kg (adult 1-10mg, occasionally 20mg) 12H oral. Capsule: adult 15mg daily.

Trifluridine. 1% soltn: 1 drop/eye 2H (max 9 drops/day) until epithelialised, then 4H (max 5 drops/day) for 7 days.

Trifluridine + tipiracil. 15/6.14mg, 20/8.19 tab. 35mg/m² (of trifluridine) 12H oral day 1-5 and 8-12 of 28 day cycle.

Trihexyphenidyl. See benzhexol.

Triiodothyronine (T3). See liothyronine.

Trilostane. 0.5-4mg/kg (adult 30-240mg) 6H oral.

Trimeprazine. Antihist: 0.1-0.5mg/kg (adult 2.5-25mg) 6H oral. Sedatn: 0.5-1mg/kg IM, 2-4mg/kg oral.

Trimethobenzamide. 5mg/kg (adult 250mg) 6-8H oral, IM, PR.

Trimethoprim. 4mg/kg (adult 75-150mg) 12H, or 6-8mg/kg (usual max 300mg) daily oral or IV. Urine prophylaxis: 2 mg/kg (adult 150mg) at night oral. P jirovecii: see dapsone.

Trimethoprim + sulphamethoxazole. See cotrimoxazole.

Trimethylglycine. See betaine hydrochloride.

Trimetrexate. 45mg/m² IV over 90min daily for 21 days, with folinic acid 20mg/m² IV over 10min 6H for 24 days (ie for 3 days longer than the trimetrexate).

Trimipramine. 1-2mg/kg (adult 50-100mg) 8-24H oral.

Trioxsalen. See trioxysalen.

Trioxysalen. Adult: 5-10mg daily 2hr before UV exposure.

Tripelennamine. 1.25mg/kg (adult 75mg) 6H oral.

Tripotassium dicitratobismuthate. See bismuth subcitrate.

Triprolidine. See pseudoephedrine + triprolidene.

Triptorelin. Adult, NOT/kg. Depot: 3.75-4.2mg IM every 28 days. Long acting: 11.25mg IM every 12wk.

Tris. See tromethamine.

Trisodium edetate. 40-70mg/kg (max 3g) IV over 6hr daily for 5 days; max 3 courses each 2 days apart.

Trometamol (THAM, Tris). See tromethamine.

Tromethamine (THAM). ml of 0.3 molar (18g/500ml) soltn = (Wt in kg) x BE; give half IV over 30min, then repeat if reqd.

Tropicamide. 0.5%, 1%: 1 drop/eye, repeat after 5min.

Tropisetron. Perioperative: 0.1mg/kg (adult 2mg) IV or oral, then 12-24H. Chemotherapy: 0.2mg/kg (adult 5mg) IV or oral just before chemo, then 12-24H.

Trospium. 0.4mg/kg (adult 20mg) 12H oral.

Trovafloxacin. 4mg/kg (adult 200mg) daily oral. Severe infn: 6mg/kg (adult 300mg) daily oral.

Tryptophan, L isomer. Adult, NOT/kg 1-2g 8H oral.

Tulobuterol. 0.04mg/kg (adult 2mg) 8-12H oral.

Tyloxapol. See colfosceril palmitate.

Typhoid vaccine, oral (Vivotif). Live. 1 cap oral days 1, 3, 5 and (for better immunity) 7. Boost yearly.

Typhoid vaccine, parenteral, polysaccharide (Typherox, Typhim Vi). Inanimate. >5yr: 0.5ml IM once. Boost 3yrly.

Ubidecarenone. 1-3mg/kg (adult 50-150mg) 12H oral.

Ulipristal. NOT/kg. 30mg oral within 120hr of intercourse. Fibroids: 5mg daily for max 3mo; repeat after 1mo if reqd.

Umecclidinium. Adult, NOT/kg: 62.5mcg inhaled daily.

Umeclidinium 62.5mcg + vilanterol 25mcg. Adult, NOT/kg: 1 inhalation daily.

Undecenoic acid, undecylenic acid. 2-5% cream, oint, powder; apply 12H.

Uracil. See tegafur + uracil.

Urea. 10% cream: apply 8-12H.

Uridine triacetate. 6.2g/m² (max 10g) daily oral.

Urofollitrophin. See follicle stimulating hormone.

Urokinase. 4000u/kg IV over 10min, then 4000u/kg/hr for 12 hr (start heparin 3-4hr later). Blocked cannula: instill 5000-25000u in 2-3ml saline for 2-4hr. Empyema: 2ml/kg of 1500 u/ml in saline, position head up/down and right side up/down 30min each, then drain. Pericard eff: 10,000 u/ml, 1ml/kg (max 20ml), clamp 1hr, drain. Alteplase usually preferable.

Ursodeoxycholic acid. 5-10mg/kg (adult 200-400mg) 12H oral.

Ursodiol. See ursodeoxycholic acid.

Ustekinumab. Adult, NOT/kg 45mg (90mg if >100kg) stat, 4wk later, then every 12wk SC.

Valaciclovir. Varicella: 20mg/kg (adult 1g) 8H oral. Genital herpes (NOT/kg): treatment 500mg 12H, prevention 500mg daily (<10 episodes/yr) 1g daily (>9 episodes/yr). Orolabial herpes: 40mg/kg (adult 2g) 12H for 2 doses. Proph CMV: 40mg/kg (max 2g) 6H.

Valcyte. Adult, NOT/kg: 900mg 12H oral for 3wk, then 900mg daily.

Valdecoxib. Adult(NOT/kg): 10mg daily (arthritis), 20mg 12H (dysmenorrhoea) oral.

Valganciclovir. Treatment: neonate 15mg/kg 12H, >4wk 520 mg/m² (max 900mg) 12H oral with food for 21 days, then daily. Prophylaxis: 520mg/m² (max 900mg) daily oral with food. Lower doses with renal impairment.

Valproic acid, valproate. See sodium valproate.

Valrubicin. Adult, NOT/kg: 800mg wkly x6 intravesical.

Valsartan. 0.8-3mg/kg (adult 40-160mg) daily oral. See also amlodipine, hydrochlorothiazide, nebivolol.

Vancomycin. Max 0.3mg/kg/min. Usually 25mg/kg IV, then 15-20mg/kg 8-12H; trough 10-15mg/L. Severe infn: 30 mg/kg IV, then 15-20 mg/kg 8-12H; trough 15-20mg/L, MIC <1mg/L, AUC/MIC 400. Surgical proph: 25mg/kg IV over 90min ending just before procedure. C. difficile: 10mg/kg (adult 500mg) 6H oral. Intraventric (NOT/kg): 10mg 48H.

Vandetanib. Adult, NOT/kg: 300mg daily oral. Check QTc.

Vardenafil. Erectile dysfunction (NOT/kg): 10mg (range 5-20 mg) oral 1hr before sexual activity (max once/day).

Varenicline. Adult, NOT/kg: 0.5mg oral daily for 3 days, 12H days 4-7; then 1mg 12H for 11wk (23wk if stopped smoking).

Varicella vaccine (Varilix, Varivax). Live. 0.5ml SC at 18mo and 12yr (Year 7). >12yr: 0.5ml SC stat, and 4-8wk later. See herpes zoster, measles, immunoglobulin – zoster.

Vasopressin, aqueous. IM, SC: 2.5-10u 6-12H. IV: put 2-5u in 1L fluid, and replace urine output + 10% each hour. Hypotension (brain death, sepsis, post-bypass): 1u/kg in 50ml at 1-3ml/hr (0.02-0.06u/kg/hr) + adrenaline 0.1-0.2mcg/kg/min. GI hge: 6u/kg in 50ml at 1-5ml/hr IV, 1ml/hr local IA. T½ 10-35min. See desmopressin, lypressin.

Vasopressin, oily. 2.5-5u (NOT/kg) IM every 2-4 days.

Vecuronium. ICU: 0.1mg/kg prn IV. Theatre: 0.1mg/kg stat, then 0.5-2mcg/kg/min; up to 10mcg/kg/min occasionally.

Vedolizumab. NOT/kg >12yr 300mg at 0,2,6wk, then 8wkly IV.

Velaglucerase alpha. 60u/kg infused IV every 2wk.

Velpatasvir. See sofosbuvir.

Vemurafenib. Adult, NOT/kg: 960mg (480-720mg if toxicity) 12H oral with cobimetinib.

Venetoclax. Adult, NOT/kg: 20mg daily oral, incr wkly to 50mg, 100mg, 200mg, then 400mg daily.

Venlafaxine. Adult, NOT/kg: 37.5mg 12H oral, incr if reqd to max 150mg 12H. Slow rel: 75mg daily oral, incr if reqd to max 225mg daily. Not recommended in children.

Verapamil. IV: 0.1-0.2mg/kg (adult 5-10mg) over 10min, then 5mcg/kg/min. Oral: 1-3 mg/kg (adult 80-120mg) 8-12H.

Veregen. 15% ointment: apply 8H for up to 16wk.

Versenate. See sodium calciumedetate.

Verteporfin. 6mg/m² over 10min IV; 15min after start of infsn give diode laser of 689nm at 600mW/cm² for 83sec.

Vidarabine. Eye ointment: x5/day until epithelialised, then 12H 7 days. IV infsn: 10mg/kg/day 5-10 days (varicella-zoster), 15mg/kg/day 10 days (herpes encephalitis).

Vigabatrin. 25mg/kg (adult 500mg) 12H oral, incr if reqd to max 75mg/kg (adult 1.5g) 12H.

Vilanterol. See fluticasone, umeclidinium.

Vilazodone. Adult, NOT/kg daily oral: 10mg wk1, 20mg wk2, 40mg wk3.

Vildagliptin. Adult, NOT/kg. With sulfonylurea (eg glimepiride) 50mg morning oral. With thiazolidinedione (eg pioglitazone) 50mg morning or 12H. See also metformin.

Viloxazine. 2-5mg/kg (adult 100-250mg) morning, and 2-3 mg/kg (adult 100-150mg) noon oral. Elderly: 100mg daily.

Vinblastine. 6.5mg/m² IV over 1 min every 1-4wk.

Vincristine. 1.5mg/m² wkly IV over 1 min.

Vindesine. 3-4mg/m² IV every 7-10day if WCC>2500/mm³.

Vinflunine. 320mg/m² IV over 20min every 3wk; 200-280 mg/m² if neutropenia, renal impairment or liver toxicity.

Vinorelbine. 30mg/m² IV over 10min weekly.

Vismodegib. Adult, NOT/kg: 150mg daily oral.

Vitamin A. NOT/kg. High risk: 100,000iu (<8kg), 200,000iu (>8kg) oral or IM every 4-6mo. Severe measles: 400,000iu once. Cystic fib: 1500u daily (<3yr) 5000u daily (3-10yr) 10000u daily (>10yr) oral. Dose >10,000iu daily or >25000u per wk may be teratogenic.

Vitamin A, B, C, D compound (Pentavite, child). NOT/kg. <3yr 2.5ml daily, >3yr 5ml daily.

Vitamin A, B, C, D compound (Pentavite, infant). NOT/kg. <3yr 0.15ml daily, incr with age by 0.15ml/day to 0.45ml/day.

Vitamin B group. Amp: IV over 30 min. Tab: 1-2/day.

Vitamin B1. See thiamine.

Vitamin B2. Metabolic disease: 50-150mg 12-24H oral.

Vitamin B6. See pyridoxine.

Vitamin B12. See hydroxocobalamin.

Vitamin C. See ascorbic acid.

Vitamin D2. See ergocalciferol.

Vitamin D3. See cholecalciferol.

Vitamin E. 1u = 1mg. Preterm babies, Coperol E (NOT/kg): 40u (2 drops) daily oral. CF, malabs: 50-100u (<3yr) 200-400u (>3yr) daily oral. Cholestasis: 50u/kg daily oral, Incr if reqd in 50u/kg increments. A-beta-lipoproteinaemia: 35-70 u/kg 8H oral. HUS: 0.25g/m² 6H oral. See alpha-tocopheryl.

Vitamin K1. See phytonadione.

Vitamin K3. See menaphthone sodium bisulphite.

Vitamins, parenteral. MVI-12 (for adult): 5ml in 1 litre IV fluid. MVI Paediatric, added to IV fluid: 65% of a vial (<3kg), 1 vial (3kg to 11yr).

Vitaprem (RCH: Pentavite, folate, B12, C). 1ml daily oral.

Von Willebrand factor / Factor VII concentrate (Wilate). Minor hge: 20-40 IU/kg then 20-30 IU/kg 12-14H. Surgery: 35-50 IU/kg, then 30-40 IU/kg 12-24H.

Vorapaxar. Adult, NOT/kg: 2.08mg daily oral.

Voriconazole. Oral: <40kg liquid 9mg/kg 12H; ≥40kg load 400mg 12H x2 doses, then 200-300mg 12H. IV (max 3 mg/kg/hr): load 9mg/kg (<40kg) 6mg/kg (≥40kg) 12H x2 doses, then 8mg/kg (<40kg) 3-4mg/kg (≥40kg) 12H. Beware interactions. Trough level 1-5mg/L (3-16umol/L).

Vorinostat. Adult, NOT/kg: 400mg daily oral; may need to decrease to 300mg daily, or 300mg on 5 days a week.

Vortioxetine. Adult, NOT/kg: 10mg incr to 20mg daily oral.

Warfarin. Usually 0.2mg/kg (max 5mg) stat, 0.2mg/kg (adult 5mg) next day if INR <1.3, then 0.05-0.2mg/kg (adult 2-5mg) daily oral. Usual INR 2-2.5 for prophylaxis, 2-3 for treatment, 3-4 mechanical valve. Beware drug interactions. Severe hge: reverse with either coagulation factor (Prothrombinex) 25 u/kg (adult 500u) or factor 7a (rFVIIa) 20mcg/kg, and phytonadione 0.3mg/kg (adult 10mg), and fresh frozen plasma 10ml/kg; repeat according to INR.

Whole blood. 6ml/kg raises Hb 1g%. 1bag = 400ml approx.

Xamoterol. 4mg/kg (adult 200mg) 12-24H oral.

Xipamide. 0.5-1.5mg/kg (adult 20-80mg) daily oral.

Xylometazoline. <6yr: 0.05% 1 drop or spray 8-12H. 6-12yr: 0.05% 2-3 drops or sprays 8-12H. >12yr: 0.1% 2-3 drops or sprays 6-12H.

Yellow fever vaccine (Stamaril). Live. >12mo: 0.5ml SC

once. Boost every 10yr.

Yohimbine. 0.05-0.1mg/kg (adult 2.7-5.4mg) 8H oral.

Zafirlukast. NOT/kg: 10mg (>7yr) 20-40mg (adult) 12H oral.

Zalcitabine. Usually 0.015mg/kg (adult 1mg) 12H oral.

Zaleplon. Adult, NOT/kg: 10mg (5-20mg) at night oral.

Zanamivir. Adult, NOT/kg: 10mg 12H for 5 days inhaled.
Prophylaxis: 10mg daily inhaled.

Ziconotide. Adult, NOT/kg: 2.4mcg/day by intrathecal infusion, incr every 24-48hr to max 21.6mcg/day.

Zidovudine (AZT, ZDV). Preterm: 1.5mg/kg 12H IV, or 2 mg/kg 12H oral to 2wk (≥ 30 wk gest) or 4wk (< 30 wk gest), then 8H. Term newborn: 1.5mg/kg 6H IV, 2mg/kg 6H oral. Child: usually 180mg/m² (up to 240mg/m²) 12H oral; 120 mg/m² 6H IV, or 20mg/m²/hr IV (range 90-180 mg/m² 6-8H IV). ≥ 18 yr: usually 200mg 8H oral, or 300mg 12H oral, or 150mg 8H IV. See also abacavir and lamivudine.

Zileuton. Adult, NOT/kg: 600mg 6H oral.

Zinc chloride. 5.3mg/ml = 2.5mg/ml Zn = 38umol/ml Zn. 2-4umol/kg/day (<1yr), 1umol/kg/day (child), 40-60umol/day (adult). Serum zinc 11-22 umol/L.

Zinc sulphate. (220mg cap = 50mg Zn = 765umol Zn). Deficiency, acroderm enteropath: initially 3mg/kg (adult 220mg) 8-12H oral, adjusted to achieve serum zinc 11-22umol/L (0.7-1.4mg/L). Diarrhoea child (NOT/kg): 10-20mg daily oral.

Ziprasidone. Adult, NOT/kg: 20mg 12H, incr if reqd to max 80mg 12H oral.

Ziv-aflibercept. 4mg/kg IV over 1hr every 2wk.

Zoledronate. 0.02mg/kg IV over 15min, then 0.04-0.05 mg/kg (max 4mg) every 3-6 months. Postmenopausal osteoporosis (adult, NOT/kg): 5mg IV every 1-2 years.

Zoledronic acid. See zoledronate.

Zolmitriptan. Adult, NOT/kg: 2.5-5mg oral, repeat in 2hr if reqd; max 15mg in 24hr. Nasal: 5mg spray in each nostril, repeat in 2hr if reqd; max twice in 24hr.

Zolpidem. 0.1-0.4mg/kg (adult 5-20mg) nocte oral; lower dose for women. Sublingual: 5-10mg nocte; *Intermezzo* 1.75mg (women) 3.5mg (men). Oral spray 5mg: 1-2 sprays nocte.

Zonisamide. 2mg/kg (adult 100mg) daily oral, incr if reqd after 2wk to 12H, then 3mg/kg (adult 150mg) 12h, then 4mg/kg (adult 200mg) 12H; rarely up to 6mg/kg (adult 300mg) 12H. Level 10-20mg/L.

Zopiclone. 0.1-0.3mg/kg (adult 5-15mg) at bedtime oral.

Zotepine. 0.5mg/kg (adult 25mg) 8H oral, adjusted every 4 days to 0.5-2mg/kg 8H.

Zuclopenthixol. Usually slow increase: 0.2-3.0mg/kg (adult 10-150mg) daily oral. IM Adult, NOT/kg: acetate (50mg = 45mg base) 50-150mg every 2-3 days (max total 400mg); decanoate (200mg = 144mg base) depot 200-400mg (oral daily dose x8) every 2-4wk.

HAEMOFILTRATION (VENO-VEIN)

Cannula: 6.5 Fr double lumen in newborn (blood flow 10-40 ml/min), 8 Fr in child (flow 30-60 ml/min), 11.5 Fr in teenager (flow 50-150ml/min), 14Fr adult (flow 100-300 ml/min).

Filter: Removes particles up to approx 20,000 Dalton. Filtrate: 10-50ml/kg/hr (monitor serum creatinine). Keep blood flow at least five times filtration rate.

Heparin: 100u/kg in 50ml saline at 1-10ml/hr prefilter, 10 u/kg in 50ml saline at 1-10ml/hr postfilter; keep ACT 1.5 x normal (Actalyke 140-160).

Citrate (no heparin): prefilter ACD 1.8ml/hr per 1ml/min of blood flow (so prefilter ionised Ca <0.3 mmol/L); postfilter 10% CaCl₂ 1ml/hr (adjust so patient ionised Ca >1mmol/L).

Replacement fluid: dextrose 0.18%, Na 135mmol/L, K 3.5, Ca 1.7, Mg 0.7, Bic 25, Phos 1.0, Cl 110, acetate balance.

Nutrition: x2 normal amino acids, trace elements, vit B&C.

PLASMAFILTRATION (VENO-VEIN)

Cannula, blood flow and heparin: as for haemofiltration.

Filter: Removes particles of MW up to 3,000,000 Dalton.

Filtrate: 20-50ml/kg/hr (a 2-volume plasma exchange is 20ml/kg/hr for 4hr). Blood flow $\geq 5 \times$ filtrate flow.

Acid citrate dextrose solution, formula A (ACDA): 1ml/hr prefilter for every 1 ml/min of blood flow.

Replacement fluid: albumin 30g/L, dextrose 0.3%, Na 135 mmol/L, K 3.5, Ca 2.0, Mg 0.7, bic 25, phos 1.5, Cl 100, acetate to balance. Give 1 bag FFP (about 230ml) per 800ml replacement, cryoprecipitate 5ml/kg (1 bag/4kg) if fibrinogen <2g/L, and immunoglob 0.5g/kg prn.

ECMO

Indications (preductal gas): Newborn OI >0.4 or VI >90.

Flow: VA: <10kg 100-150ml/kg/min, >10kg: 2.4L/m²/min; higher flows needed in sepsis. VV: about 70% of VA flows.

Ventilation of neonates: typically 10 x 20/10 (PIP minimum needed to move chest) in air.

Heparin: 100u/kg cannulation; then 20u/kg/hr, adjust to ACT.

Maintain: Plasma Hb <0.1g/L. ACT x2 normal (Actalyke 150-160), pl >80,000. Hge: Actalyke 140-150, pl >150,000.

Preparation: clear prime in emergency. Cross match 1u whole blood, up to 4u packed cells, 2u FFP, 1u cryo, 2-5u platelets. Ensure good CVC and arterial line, correct ETT.

CYTOCHROME P450 INTERACTIONS

For more information, see Medical Letter 2016;58:e46-e47 and <http://medicine.iupui.edu/CLINPHARM/ddis/clinical-table>.

Increase the dose of a substrate drug if it is given with a drug that induces the metabolism of that group, and reduce it when given with an inhibitor. For example, phenytoin is metabolised by CYP2C9 (group 2C9), and this enzyme group is inhibited by fluconazole – so the dose of phenytoin should be reduced if fluconazole is given to a patient who is already on phenytoin.

Substrate drugs Alfentanil 3A, alprazolam 3A, amiodarone 3A, amitriptyline 2C19 & 2D6, amlodipine 3A, amodiaquine 2C8, amprenavir 3A, aniline 2E1, aripiprazole 2D6 & 3A, artemisin 2B6, astemizole 3A, atazanavir 3A, atomoxetine 2D6, atorvastatin 3A, benzene 2E1, boceprevir 3A, budesonide 3A, bupropion 2B6, buspirone 3A, carbamazepine 3A, carisoprodol 2C19, carvedilol 2D6, celecoxib 2C9, cerivastatin 2C8 & 3A, chlorpheniramine 3A, chlorzoxazone 2E1, cisapride 3A, citalopram 2C19, clarithromycin 3A, clomipramine 2C19 & 2D6, clopidogrel 2C19, clozapine 1A2, codeine 2D6, cortisol 3A, cyclobenzaprine 1A2, cyclophosphamide 2B6 & 2C19 & 3A, cyclosporin 3A, darifenacin 3A, delavirdine 3A, desipramine 2D6, dextromethorphan 2D6, diazepam 2C19 & 3A, diclofenac 2C9, diltiazem 3A, doxepine 2D6, duloxetine 1A2 & 2D6, efavirenz 2B6, enflurane 2E1, erlotinib 3A, erythromycin 3A, esomeprazole 2C19, ethanol 2E1, everolimus 3A, felodipine 3A, fentanyl 3A, flecainide 2D6, fluoxetine 2D6, fluvastatin 2C9, fluvoxamine 1A2, formamide 2E1, gleevec 3A, glipizide 2C9, glyburide 2C9, haloperidol 1A2 & 2D6 & 3A, halothane 2E1, ibuprofen 2C9, ifosfamide 2B6, imipramine 1A2 & 2C19 & 2D6, indinavir 3A, Irbesartan 2C9, isoflurane 2E1, ketamine 2B6, labetalol 2C19, lansoprazole 2C19, losartan 2C9, lovastatin 3A, meperidine 2B6, methadone 2B6 & 3A, methoxyflurane 2E1, metoprolol 2D6, mexiletine 1A2 & 2D6, midazolam 3A, nifedipine 3A, nimodipine 3A, omeprazole 2C19, ondansetron 2D6, nabumetone 1A2, naproxen 1A2 & 2C9, nelfinavir 3A, nevirapine 2B6 & 3A, nifedipine 3A, nisoldipine 3A, nitrendipine 3A, oestradiol 3A, olanzapine 1A2, omeprazole 2C19, ondansetron 2D6, oxybutynin 3A, oxycodone 2D6, paclitaxel 2C8, pantoprazole 2C19, paracetamol 2E1, paroxetine 2D6, pazopanib 3A, phenobarbitone 2C19, phenytoin 2C9 & 2C19, pimozone 3A, piroxicam 2C9, progesterone 2C19 & 3A, proguanil 2C19, propafenone 2D6, propofol 2B6, quinidine 3A, quinine 3A, rabeprazole 2C19, repaglinide 2C8 & 3A, riluzole 1A2, risperidone 2D6, ritonavir 3A, rosiglitazone 2C9, saquinavir 3A, selegiline 2B6, sevoflurane 2E1, sildenafil 3A, simvastatin 3A, sirolimus 3A, solifenacin 3A, sulfamethoxazole 2C9, sufentanil 3A, tacrine 1A2, tacrolimus 3A, tadalafil 3A, tamoxifen 2C9 & 2D6 & 3A, telaprevir 3A, telithromycin 3A, theophylline 1A2 & 2E1, thioridazine 2D6, timolol 2D6, tizanidine 1A2, tolbutamide 2C9, tolterodine 3A, torsemide 2C8 & 2C9, tramadol 2D6 & 3A, trazodone 3A, triamterene 1A2, triazolam 3A, troleandomycin 3A, valproate 2C9, vardenafil 3A, venlafaxine 2D6, verapamil 3A, vinblastine 3A, vincristine, 3A, voriconazole 2C19, warfarin 2C9, zafirlukast 2C9, zileuton 1A2, zolmitriptan 1A2.

Inhibitor and inducer drugs: *strong inhibitors in italics*

Group 1A2 Inhibitor: amiodarone, cimetidine, *ciprofloxacin*, desferasirox, efavirenz, enoxacin, *fluvoxamine*, levofloxacin, lomefloxacin, mexiletine, norfloxacin, oestrogens, ofloxacin, sparfloxacin, thiabendazole, ticlopidine, trovafloxacin, vemurafenib, zileuton. **Inducer:** barbiturates, carbamazepine, primidone, rifampicin, tobacco.

Group 2B6 Inhibitor: clopidogrel, mifepristone, thiotepa, ticlopidine, voriconazole. **Inducer:** artemisin, carbamazepine, efavirenz, isavuconazonium, nevirapine, phenobarbitone, phenytoin, rifampicin, ritonavir.

Group 2C8 Inhibitor: abiraterone, desferasirox, *gemfibrosil*, lapatinib, montelukast, nilotinib, sorafenib, teriflunomide, trimethoprim. **Inducer:** rifampicin.

Group 2C9 Inhibitor: amiodarone, capecitabine, ceritinib, clopidogrel, delavirdine, disulfiram, efavirenz, etavirine, fenofibrate, *fluconazole*, floxuridine, fluorouracil, fluvastatin, imatinib, isoniazid, metronidazole, *miconazole*, nilotinib, paroxetine, sorafenib, sulfisoxazole, sulphadiazine, sulphamethoxazole, valproate, voriconazole, zafirlukast. **Inducer:** aprepitant, barbiturates, bosentan, carbamazepine, dabrafenib, enzalutamide, phenytoin, primidone, rifampicin, secobarbitone.

Group 2C19 Inhibitor: armodafinil, bortezomib, cimetidine, *delavirdine*, efavirenz, esomeprazole, etravirine, felbamate, fluoxetine, *fluconazole*, fluoxetine, *fluvoxamine*, isoniazid, ketoconazole, lansoprazole, modafinil, omeprazole, oral contraceptives, oxycarbazepine, *ticlopidine*, voriconazole. **Inducer:** barbiturates, carbamazepine, efavirenz, enzalutamide, phenytoin, rifampicin, ritonavir, St John wort.

Group 2D6 Inhibitor: amiodarone, *bupropion*, chlorpheniramine, cimetidine, *cinacalcet*, clomipramine, duloxetine, *fluoxetine*, haloperidol, methadone, *paroxetine*, *quinidine*, *quinine*, ritonavir, *terbinafine*, *tipranavir*.

Group 2E1 Inhibitor: disulfiram. **Inducer:** ethanol, isoniazid.

Group 3A4,5,7 Inhibitor: amiodarone, amprenavir, aprepitant, *atazanavir*, ceritinib, ciprofloxacin, *clarithromycin*, clotrimazole, *cobicistat*, *conivaptan*, crizotinib, cyclosporine, dalfopristin, darunavir, delavirdine, diltiazem, dronedarone, erythromycin, *fluconazole*, *fluvoxamine*, fosamprenavir, grapefruit juice, *idelalisib*, *imatinib*, *indinavir*, isavuconazonium, *isoniazid*, *itraconazole*, ivacaftor, *ketoconazole*, lomitapide, *lopinavir*, mibefradil, *miconazole*, *nefazodone*, *nefinavir*, netupitant, norfloxacin, *posaconazole*, quinupristin, *ritonavir*, saquinavir, *telithromycin*, *tipranavir*, troleandomycin, verapamil, *voriconazole*, *zafirlukast*. **Inducer:** armodafinil, artemether, barbiturates, bexarotene, bosentan, carbamazepine, dabrafenib, desferasirox, dexamethasone, efavirenz, enzalutamide, etravirine, lumacaftor, mitotane, modafinil, nafcillin, nevirapine, oxycarbazepine, phenobarbitone, phenytoin, pioglitazone, primadone, rifabutin, rifampicin, rifapentine, St John wort, troglitazone.

ALVEOLAR - ART O₂, MEAN AIRWAY PRESSURE, OI, VI

$A-aDO_2 = PAO_2 - PaO_2 = ((P_{bar} - P_{water}) \times FiO_2) - (PaCO_2 / 0.8) - PaO_2$. Usually = $(716 \times FiO_2) - (PaCO_2 / 0.8) - PaO_2$.

Child <10mmHg, adult <15mmHg, elderly <40 mmHg.

$MAP = ((PIP \times IT) + (PEEP \times ((60/RR) - IT))) / (60/RR)$.

Oxygenation index (OI) = $MAP \times FiO_2 / PaO_2$.

Ventilation index (VI) = $pCO_2 \times RR \times PIP / 1000$.

MUSCLE RELAXANTS

Normally use pancuronium. If tachycardia a problem, use vecuronium. If severe renal or liver failure, use atracurium. Approximate relative cost per day: pancuronium 1.0, vecuronium 10, atracurium 35.

PACING (p=paced, s=sensed, A=atrial, V=ventricular)

Code: chamber p / chamber s / response to s

VVI = Vp / Vs / inhibition with Vs

AAI = Ap / As / inhibition with As

DVI = Ap Vp / Vs only/ inhibition and reset by Vs

DDD = A&V p + s + response; eg As Vp, Ap Vs, or Ap Vp

If the atrial pacing wires are connected to the R and L arm leads from ECG machine, lead I is an atrial electrogram.

INTRAVASCULAR CATHETERS

Right internal jugular central line (inserted midway between mastoid and sternal notch): depth = (Height in cm) / 10

UA line (tip above diaphragm, below left subcl art): depth = 2cm more than distance from of the shoulder to umbilicus.

UV line: catheter depth = distance from end of umbilical stump to junction of lower and middle third of sternum.

HAEMATOLOGY

Extrinsic pathway (PT): 7, 10, 5, 2 (proth), 1 (fibrinogen).

Intrinsic pathway (APTT): 12, 11, 9, 8, 10, 5, 2(proth), 1(fib).

See albumin, cryoprecipitate, factor 8 concentrate, fresh frozen plasma, packed cells, platelets, prothrombinex, thrombin glue and whole blood in drug doses section.

Compatible blood groups are:

Patient	Whole blood	Packed red cells	FFP	Cryo-precip
O	O	O	Any	O
A	A or O*	A or O	A or AB	A
B	B or O*	B or O	B or AB	A
AB	Any*	Any	AB	A

* Low titre group O blood. Do not use whole blood.

Platelets: donor preferably has same ABO and Rh groups as recipient, otherwise usually as for FFP.

INTRAVENOUS FLUID REQUIREMENTS (ml/hr)

Wt kg:	3	5	7	10	15	20	25	30	40	50	60	70
Active	12	20	30	40	50	60	65	70	80	90	95	100
Sick	6	10	14	20	25	30	35	40	45	55	60	70
Intubated	5	7	10	14	17	21	25	28	32	40	45	50

Post-cardiac surgery: volume for "Intubated" in the table.

Active neonates: 2ml/kg/hr (day 1 of life), 3ml/kg/hr (day 2 of life), 4ml/kg/hr (day 3 to 12mo).

<4wk: 10% Dex in 0.45% NaCl with 20mmol/L KCl

≥4wk and <10kg: 10% Dex in 0.9% NaCl with 20mmol/L KCl

≥10Kg: 5% Dex in 0.9% NaCl with KCl 20 mmol/L

FLUID AND ELECTROLYTE FORMULAE

Anion gap = $\text{Na} - (\text{bicarb} + \text{Cl})$. Normal <12.

Anuria (noncatabolic): urea rises 3-5mmol/L/day, creatinine rises 50-100umol/L/day (0.05-0.1mmol/L/day).

Bicarbonate. See drug doses section.

Blood volume = 85ml/kg in neonate, 65ml/kg in adult.

Chloride deficit: $\text{ml } 20\% \text{ NaCl} = \text{Wt} \times 0.2 \times (104 - \text{serum Cl})$.

Corrected Na = measured Na + 0.3 (glucose - 5.5) mmol/L.

Effective osmolality = $2\text{Na} + \text{glucose}$ (mmol/L). N 265-290.

Extracellular fluid: birth 400ml/kg, >1yr 250ml/kg.

Number ml/hr IV = $\text{microdrop/min} = 4 \times \text{drop/min}$.

No. mmoles = $\text{mEq/valence} = \text{mass(mg)/mol.wt}$.

Osmolality serum = $2\text{Na} + \text{gluc} + \text{urea}$ (mmol/L). N 270-295.

Plasma volume = 45ml/kg in neonate, 35 ml/kg in adult.

Sodium deficit: $\text{ml saline} = \text{Wt} \times 4 \times (140 - [\text{Na}]) / (\% \text{ saline})$.

Sodium in hyperglycaemia = $\text{Na} + 0.3(\text{glucose} - 5.5)$.

Urine: minimum acceptable is 0.5-1.0ml/kg/hour.

Water deficit ml = $600 \times \text{Wt(kg)} \times (1 - 140/\text{sodium})$.

DIALYSIS

If required: gentamicin 8-10mg/L, or cephazolin 250mg/L.

Cycles. Ventilated: 10-20ml/kg/cycle (in/dwell 20min, out 10 min). Normal: 40ml/kg/cycle (in/dwell 40min, out 20min).

Potassium. 0-4mmol/L.

Solution. 1.5% isotonic, 4.25% hypertonic.

VENTILATION

Minimum flow rate 2-3 L/kg/min.

Headbox oxygen: minimum gas flow 2-3 L/kg/min.

Nasopharyngeal oxygen: insert catheter to a depth equal to distance from side of nose (ala nasi) to front of ear (tragus). 150ml/kg/min delivers approx 50% oxygen.

Volume control: tidal volume usually 6-10 ml/kg.

Ventilator rate/min: neonate 30, 6mo 25, 1-5yr 20, >5yr 16.

VICTORIA (AUSTRALIA) IMMUNISATION

Birth. Hepatitis B (HB Vax II Paediatric) 0.5ml IM.

2 months. Diphtheria + tetanus + acellular pertussis + polio + Hib (DTPa-hepB-IPV-Hib) (Infanrix-Hexa) 0.5 ml IM; pneumococ (Prevenar13) 0.5ml IM; rotavirus (RotaTeq) 2ml oral.

4 months. DTPa-hepB-IPV-Hib (Infanrix-Hexa) 0.5ml IM; 0.5 ml IM; pneumococcus (Prevenar13) 0.5ml IM; rotavirus (RotaTeq) 2ml oral.

6 months. DTPa-hepB-IPV-Hib (Infanrix-Hexa) 0.5ml IM; 0.5 ml IM; pneumococcus (Prevenar 13) 0.5ml IM; rotavirus (RotaTeq) 2ml oral.

12 months. Measles + mumps + rubella (MMR-II / Priorix) 0.5 ml SC; Hib + men C (Menitorix) 0.5ml IM.

18 months. MMR-chickenpox (Priorix-Tetra) 0.5 ml SC; DTPa (Infanrix or Tripacel) 0.5ml IM.

4 yr. DTPa-IPV (Infanrix-IPV) 0.5ml IM; MMR (MMR-II / Priorix) 0.5ml SC.

School Year 7 (age 12-13yr). Chickenpox (Varivax / Varilrix) 0.5ml SC; human papillomavirus (Gardasil) 0.5ml IM at 0, 2 and 6 mo (3 doses); DTP (Boostrix) 0.5ml IM.

50-59 years. Diphtheria + tetanus (ADT) 0.5ml IM.

From 65 years. Pneumococcus (Pneumovax 23) 0.5ml IM; Influenza (Fluarix, Fluvax, Vaxigrip) 0.5ml SC every year.

70 years. Shingles (Zostavax) 0.65ml SC.

ANTIBIOTIC GUIDELINES

CNS, EYE

Herpes encephalitis. Aciclovir 500mg/m² (≤ 12 yr) 10mg/kg (>12 yr) 8H IV.

Meningitis. ≥ 2 mo ceftriaxone 50mg/kg (max 2g) 12H IV; <2 mo cefotaxime 50mg/kg 6H IV **and** benzylpenicillin 60 mg/kg 12H (wk1) 8H (wk2) 6H (wk3-4) 4H ($>wk4$) IV.

Meningococcal prophylaxis. Rifampicin 10mg/kg (max 600 mg) 12H for 2 days.

Orbital cellulitis (proptosis, chemosis, eye movement painful). Ceftriaxone 50mg/kg (max 2g) 12H IV **and** flucloxacillin 50mg/kg (max 2g) 6H IV.

Periorbital cellulitis. See soft tissue cellulitis.

CVS

Prophylaxis. Before cardiac surgery: cefazolin 50mg/kg IV.

Dental and upper respiratory procedures: amoxycillin 50 mg/kg (max 2g) oral 1hr before or IV at induction.

GI TRACT

Acute peritonitis or ascending cholangitis. Benzylpenicillin 50mg/kg (max 2g) 4-6H IV **and** gentamicin daily IV **and** metronidazole 15mg/kg (max 1.6g) stat then 7.5mg/kg (max 800 mg) 8H IV.

Acute giardiasis. Metronidazole 30mg/kg (max 2g) daily for 3 days.

URINARY TRACT INFECTION

Sick, or <6mo, or acute pyelonephritis. Benzylpenicillin 50 mg/kg (max 2g) 6H IV **and** gentamicin daily IV.

Not sick and >6mo. Trimethoprim tab 4mg/kg 12H oral **or** cotrimox syrup 8/40mg/ml 0.5ml/kg (max 20ml) 12H oral.

Prophylaxis. Trimethoprim **or** cotrimoxazole, half the above doses daily.

RESPIRATORY

Acute tonsillitis. Consider no antibiotic (particularly if <4yr) **or** penicillin V 30 mg/kg (max 1g) 12H oral for 10 days.

Acute otitis media. Consider none for 48hr (particularly if >2yr) **or** amoxycillin 15mg/kg (max 500mg) 8H oral.

Pertussis. Clarithromycin 7.5mg/kg (max 500mg) 12H oral 7 days **or** azithromycin 10mg/kg (max 500mg) daily 5 days.

Community acquired pneumonia. Mild: amoxycillin 15 mg/kg (max 500mg) 8H oral **or** roxithromycin 4mg/kg (max 150mg) 12H oral. Moderate: benzylpenicillin 50mg/kg (max 3g) 6H IV **or** roxithromycin. Severe pneumonia, or large effusion: benzylpenicillin 50mg/kg (max 3g) 4H IV (or flucloxacillin *only* if staph likely) **and** gentamicin daily IV **and** azithromycin IV if considering mycoplasma.

SEPTICAEMIA, SKIN, SOFT TISSUE, BONE

Septicaemia, no meningitis, no obvious source. Flucloxacillin 50mg/kg (max 2g) 4H (or vancomycin if central line or suspect MRSA) IV **and** gentamicin daily IV.

Septicaemia, unknown CSF. Flucloxacillin **or** vanc **and** cefotaxime.

Adenitis. Flucloxacillin 50mg/kg (max 2g) 6H IV.

Cellulitis. Mild: cephalexin 25mg/kg (max 500mg) 6H oral. Moderate, not responding, or facial: flucloxacillin 50mg/kg (max 2g) 6H IV **and** gentamicin IV.

Bites, animal or human. Amoxycillin/clavulanate 15 mg/kg (of amoxycillin) (max 500/125mg) 8H oral. Severe: Ticarcillin-clavulanate 50mg/kg (max 3g) 6H IV

Osteomyelitis, septic arthritis. Flucloxacillin 50mg/kg (max 2g) 4-6H IV (**and** cefotaxime if <5yr and not Hib immunised).

Impetigo. Mupirocin 2% ointment 8H if localised **or** cephalalexin 25mg/kg (max 500mg) 12H oral.

Lice, scabies. Permethrin 1% (head lice), 5% (scabies).

NORMAL VALUES: BLOOD AND SWEAT

Acid phosphatase (prostatic): 0-0.8 IU/L
ACTH (0800hr): <20 pmol/L
Activated partial thromboplastin time (APTT): 22-39 sec
Alanine aminotransferase (ALT, SGPT): 0-35 IU/L.
Albumin: (>1y): 33-47 g/L ($\times 0.1 = \text{g}/100\text{ml}$)
Alkaline phos (0-2y): 100-350 IU ($\times 0.041 = \text{KA}/100\text{ml}$)
Ammonia: <50 $\mu\text{mol}/\text{L}$ ($\times 1.703 = \text{ug}/100\text{ml}$)
Amylase: 8-85 IU ($\times 0.546 = \text{SU}/100\text{ml}$)
Aspartate transaminase (AST) (1-3y): 15-60 IU (was SGOT)
Base excess: -4 to +3 mmol/L ($\times 1 = \text{mEq}/\text{L}$)
Bicarbonate: 18-25 mmol/L ($\times 1 = \text{mEq}/\text{L}$)
Bilirubin (>1m): <10 $\mu\text{mol}/\text{L}$ ($\times 0.0585 = \text{mg}/100\text{ml}$)
Caeruloplasmin: 200-430 mg/L ($\times 0.001143 = \text{ODU}$)
Calcium ionized: 1.2-1.3 mmol/L ($\times 4.008 = \text{mg}/100\text{ml}$)
Calcium total: 2.0-2.7 mmol/L ($\times 4.008 = \text{mg}/100\text{ml}$)
Carboxyhaemoglobin: <5% total
Chloride: 98-110 mmol/L ($\times 1 = \text{mEq}/\text{L}$)
Chloride, sweat (<12y): <50 mmol/L ($\times 1 = \text{mEq}/\text{L}$)
Cholesterol (>1y): 3.1-5.4 mmol/L ($\times 38.66 = \text{mg}/100\text{ml}$)
Cholinesterase: 600-1500 IU
Copper (1-9y): 14-28 $\mu\text{mol}/\text{L}$ ($\times 6.354 = \text{ug}/100\text{ml}$)
Coproporphyrin: <0.3 $\mu\text{mol}/\text{L}$ ($\times 654 = \text{ug}/\text{L}$)
Cortisol: 150-600 nmol/L
Creatine kinase (CK, CPK): 40-240 IU
Creatinine (1-9y): 10-60 $\mu\text{mol}/\text{L}$ ($\times 0.0113 = \text{mg}/100\text{ml}$)
Cross-linked degradation products: <0.25 mg/L
Cyanide: <8 $\mu\text{mol}/\text{ml}$, >40 fatal ($\times 0.026 = \text{mcg}/\text{ml}$)
Ferritin: 18-300 mcg/L ($\times 1 = \text{ng}/\text{ml}$)
Fibrinogen: 1.9-5.0 g/L (split products <10 mg/L)
Free fatty acids: 0.1-0.6 mmol/L
Free thyroxine index (>4m): 60-155%
Globulins (>3y): 17-38 g/L ($\times 0.1 = \text{g}/100\text{ml}$)
Glucose (>1m): 3.6-5.4 mmol/L ($\times 18.02 = \text{mg}/100\text{ml}$)
Gamma-glutamyltransferase (GGT) (>3m): <40 IU
Immature/total neutrophil ratio: <0.15 (neonate <0.2)
Insulin, fasting: 3-26 mU/L
Iron: 9-27 $\mu\text{mol}/\text{L}$ ($\times 5.585 = \text{ug}/100\text{ml}$)
Iron binding capacity: 45-72 $\mu\text{mol}/\text{L}$ ($\times 5.585 = \text{ug}/100\text{ml}$)
Lactate (venous): 1.0-1.8 mmol/L ($\times 8.904 = \text{mg}/100\text{ml}$)
Lactate dehydrogenase (LD): 210-420 IU
Lead: 0.2-1.2 $\mu\text{mol}/\text{L}$ ($\times 20.72 = \text{ug}/100\text{ml}$)
Lipase: 0-2.66 ukat/L ($\times 60 = \text{IU}/\text{L}$)
Magnesium: 0.7-1.0 mmol/L ($\times 2.432 = \text{mg}/100\text{ml}$)
Methaemoglobin: <2% total
Osmolality: 270-295 mmol/kg ($\times 1 = \text{mOsm}/\text{kg H}_2\text{O}$)
PCO₂: 32-45 ($\times 0.1317 = \text{kPa}$)
pH (>1m): 7.34-7.43
Phosphate (>2y): 1.1-1.8 mmol/L ($\times 3.098 = \text{mg}/100\text{ml}$)

PO_2 (>2w): 80-100 mmHg ($\times 0.1317 = \text{kPa}$)
 Potassium (>1y): 3.5-5.0 mmol/L ($\times 1 = \text{mEq/L}$)
 Protein (>3y): 57-80 g/L ($\times 0.1 = \text{g/100ml}$)
 Prothrombin time (PT): 9-14 sec, INR 0.8-1.3
 Protoporphyrin: 0.3-1.0 $\mu\text{mol/L}$ ($\times 56.2 = \text{ug/100ml}$)
 Pyruvate: <0.1 mmol/L ($\times 8.702 = \text{mg/100ml}$)
 Renin activity: 1-4 ng/ml/h
 Sodium: 135-145 mmol/L ($\times 1 = \text{mEq/L}$)
 Thyroid bind glob (adult): 12-28mg/L ($\times 0.078 = \text{ugT4/100ml}$)
 Thyroid stimulating hormone (TSH) (>14d): <5 nmol/L
 Thyroxine free (adult): 9-26 pmol/L
 Thyroxine total (>1y): 70-155 nmol/L ($\times 0.078 = \text{ug/100ml}$)
 Triglycerides: 0.9-2.0 mmol/L; TPN <2.8 mmol/L (<4wk) <4.5 mmol/L ($\geq 4\text{wk}$). ($\times 88 = \text{mg/100ml}$)
 Triiodothyronine (T3) (adult): 1.0-2.7 nmol/L
 Triiodothyronine (T3) uptake (0-adult): 70-115%
 Troponin I (cardiac troponin): 0-0.29 mcg/L
 Urea (>4y): 2.1-6.5 mmol/L ($\times 6.006 = \text{mg/100ml}$)
 Uric acid (<12y): 0.13-0.4 mmol/L ($\times 16.81 = \text{mg/100ml}$)
 Vitamin D (25-OH-D3): 28-165 nmol/L
 Zinc: 11-22 $\mu\text{mol/L}$ ($\times 6.538 = \text{ug/100ml}$)

NORMAL VALUES: URINE

Adrenaline (1-6y): <0.05 $\mu\text{mol/d}$
 Delta ALA: <40 $\mu\text{mol/L}$ ($\times 0.13 = \text{mg/L}$)
 Calcium: <0.12 mmol/kg/d ($\times 40.08 = \text{mg/kg/d}$)
 Calcium/creatinine ratio: <0.7 mmol/mmol
 Copper: <0.3 $\mu\text{mol/d}$ ($\times 63.5 = \text{ug/d}$)
 Coproporphyrin: <0.3 $\mu\text{mol/L}$ ($\times 654 = \text{ug/L}$)
 Creatinine clearance: 1.4-2.4 ml/s/1.73m²
 Dopamine (1-6y): 0.11-1.16 $\mu\text{mol/d}$
 Dopamine (1-6y): <1.1 $\mu\text{mol/mmol creat}$
 5HIAA: <0.05 mmol/d ($\times 0.19 = \text{mg/d}$)
 Homovanillic acid (HVA) (1-6y): 3-16 $\mu\text{mol/mmol creat}$
 MHMA, VMA or HMMA (1-6y): <12 $\mu\text{mol/d}$
 Osmolality: 50-1400 mmol/kg ($\times 1 = \text{mOsm/kg H}_2\text{O}$)
 Oxalate: <0.6 mmol/d ($\times 90 = \text{mg/d}$)
 Phosphate index (<12y): -0.2 to +0.04
 Porphobilinogen: <9 $\mu\text{mol/L}$ ($\times 0.23 = \text{mg/L}$)
 Protein: <4 mg/h/m²
 Uroporphyrin: <0.05 $\mu\text{mol/L}$ ($\times 830 = \text{ug/L}$)

NORMAL VALUES: CEREBROSPINAL FLUID

Glucose: >2.5 mmol/L ($\geq 60\%$ blood level)
 Protein: 0.5-4 (prem), 0.4-1.7 (<1wk), 0.05-0.4 g/L (>2mo)
 Lymphocytes ($\times 10^6/\text{L}$): <20 (<1wk), <6 (>1wk)
 Neutrophils ($\times 10^6$): <10 (<1wk), 0 (>1wk)

DRUG INFUSION COMPATIBILITY TABLE

I Incompatible

? Unknown

C Standard concentrations compatible (see bottom row of table)

Y Standard concentrations compatible mixed at Y connection near patient

d Both solutions in 5% dextrose

s Both solutions in 0.9% saline

Epoprostenol is incompatible with all other drugs

	Adrenaline	Alprostadi	Aminophylline	Amiodarone	Amphotericin B	Dobutamine	Dopamine	Esmolol	Fentanyl	Frusemide	Glyceryl trinitrate	Insulin in albumin	Isoprenaline	Ketamine	Levosemendan	Lignocaine	Mg sulphate	Metaraminol
Alprostadi PGE1	Y																	
Aminophylline	I	Y																
Amiodarone	Yd	?	I															
Amphotericin B	I	?	Yd	Y														
Dobutamine	C	Y	I	Y	I													
Dopamine	Y	Y	Y	Y	I	C												
Esmolol	Y	?	Y	Y	I	Y	Y											
Fentanyl	Y	?	Y	Yd	Yd	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Frusemide	Y	Y	Y	I	I	I	I	I	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Glyceryl trinitrate	Y	Y	Y	Y	Yd	C	C	Y	Y	Y	I	Y	Y	Y	Y	Y	Y	Y
Insulin in albumin	I	?	I	I	I	I	I	Y	Y	Y								
Isoprenaline	I	Y	I	Y	I	Y	Y	Y	Y	I	Y	I	?	?	?	?	?	?
Ketamine	?	?	?	?	?	?	?	?	Y	?	?	?	?	?	?	?	?	?
Levosemendan	?	?	?	?	?	?	?	?	?	Y	Y	?	?	?	?	?	?	?
Lignocaine	I	Y	Y	Y	I	Y	C	Y	Y	C	Y	C	Y	C	?	?	?	?

[illegible]

RESUSCITATION

- Coma, apnoea, pulselessness: CPR, intubate, ventilate with 100% oxygen, insert IV or IO or sagittal sinus, display ECG and:
- asystole: adrenaline every 3min, bicarbonate or volume or atropine 20 mcg/kg (0.03 ml/kg of 0.6 mg/ml), defib 2-4 joule/kg, pace
 - VF or VT: defibrillate 2-4 joule/kg x1-4, adrenaline every 3min, defibrillate, lignocaine 1% 0.1ml/kg, defibrillate (then try amiodarone 5mg/kg, magnesium sulphate 50% 0.06 ml/kg, bicarbonate, volume)
 - electromechanical dissociation: treat hypovolaemia or pneumothorax or tamponade, adrenaline every 3min, bicarbonate.

AGE (years)	BIRTH	1	2	3	4	5	6	7	8	9	10	11	12	13 yr
WEIGHT (kilograms)	3	5	10		15		20		25		30		35	40 kg
ADRENALINE IV/IO 1:10,000 0.1ml/kg via ETT 1:1000 0.1ml/kg	1	1			1.5		2		2.5		3		3.5	4 ml
SODIUM BICARBONATE 8.4% 1-2ml/kg stat	6	10	20	25	30		40		50		60		70	80 ml
SODIUM BICARBONATE 8.4% 1ml/kg/10 min arrest time	3	5	10		15		20		25		30		35	40 ml

LIGNOCAINE 1% 0.1ml/kg
(1mg/kg), then 20-40ug/kg/min

VOLUME EXPANSION. Initially
10ml/kg, repeat x2-3 if required

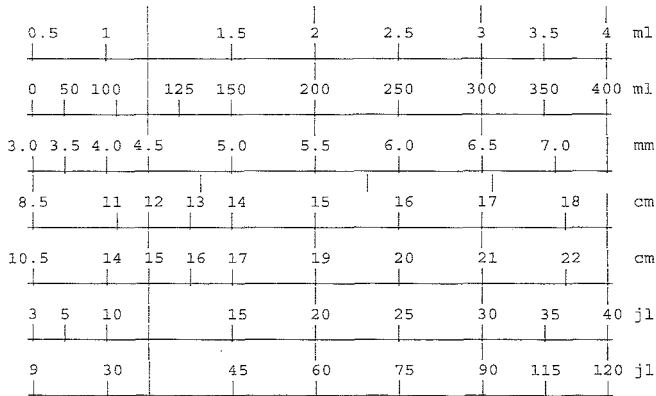
ENDOTRACHEAL TUBE
Internal diameter (mm)

ENDOTRACHEAL TUBE (ORAL)
Length at lip (cm)

ENDOTRACHEAL TUBE (NASAL)
Length at nose (cm)

CARDIOVERSION. Atrial arrhythmia
1 joule/kg

CARDIOVERSION. Ventricular
arrhythmias 2-4 joule/kg



PHARMACOKINETICS

IV BOLUS, 1 COMPARTMENT, 1ST ORDER

$$\text{Loading dose (mg/kg)} = \frac{V_d \times C_p}{F} = \frac{MD \times t_{1/2}}{DI \times 0.693}$$

$$\text{Maintenance dose (mg/kg)} = \frac{LD \times DI}{t_{1/2} \times 1.44} = \frac{C_{ss} \times V_d \times DI}{t_{1/2} \times F \times 1.44}$$

$$\text{Steady state conc. (ug/ml)} = \frac{F \times MD}{Cl \times DI} = \frac{t_{1/2} \times F \times MD}{0.693 \times V_d \times DI}$$

$$\text{Vol. distribution (L/kg)} = \frac{D}{C_o} = \frac{D \times t_{1/2}}{0.693 \times AUC}$$

$$\text{Clearance (L/kg/hr)} = \frac{V_d}{1.44 \times t_{1/2}} = \frac{D}{AUC} = \frac{D \times 0.693}{t_{1/2} \times C_o}$$

$$\text{Elimination constant (Kel)} = 0.693 / t_{1/2}$$

$$\text{Concentration at time T hr} = C_o / e^{(T \times Kel)}$$

$$Kel = [\ln(\text{high}) - \ln(\text{low})] / \text{interval in hr}$$

AUC= area under curve (hr.ug/ml)

Cl = clearance (L/kg/hr) (x 16.67 = ml/kg/min)

C_o = concentration at time zero (ug/ml, mg/L)

C_p = plasma/serum concentration (ug/ml, mg/L)

C_{ss} = steady state concentration (ug/ml, mg/L)

D = dose (mg/kg)

DI = dose interval (hours)

e = 2.71828

F = fraction of drug absorbed

Kel = elimination constant

LD = loading dose (mg/kg)

MD = maintenance dose (mg/kg)

t_{1/2} = half life (hours)

V_d = volume of distribution (L/kg)