

Octreotide 1 - 2 mCg/kg/hr IV (max 50 mCg/hr)
Omeprazole 1 mg/kg/QD PO(max 3.3 mg/kg/day,adult 20 mg/day)
Ondansetron < 5 kg = 0.5 mg IV q8h prn; <30 kg = 1 mg IV q8h prn; ≥30 kg = 2 mg IV q8h prn. ORAL: 6 mo- 1yr = 2 mg; 1 yr - 12yr = 4 mg; > 12 yr = 8 mg
Oxacillin 150 - 200 mg/kg/day/q4 - 6h IV (max 12 g/day)
Pancuronium 0.1 mg/kg/dose IV q1 - 2h prn
 Continuous infusion: 0.1 mg/kg/hr IV
Penicillin G (aqueous)* 100K - 400K units/kg/day/q4 - 6h IV (max 24 Million Units/day)
Penicillin G Benzathine (IM only) 50K units/kg IM x1, available doses 300K, 600K, 900K, 1.2 million units (max 1.2 Million Units/dose)
Penicillin VK 25 - 50 mg/kg/day/q6 - 8h PO (max 2 g/day)
Pentobarbital see procedural sedation dosing below
Phenobarbital 20 mg/kg IV load, then 5 mg/kg/day/q12 - 24h IV/PO (Trough level 15 - 40 mCg/mL)
Phenylephrine 0.1 - 0.5 mCg/kg/min IV
Phytonadione (Vitamin K₁) 1 - 5 mg/dose SC/IV q24h x 3 days (must be given SLOWLY by IV route)
Piperacillin** 200 - 300 mg/kg/day/q6h IV (max 24 g/day)
 Cystic Fibrosis: 300 - 500 mg/kg/day IV (max 24 g/day)
Piperacillin/Tazobactam** (dosed as piperacillin) 300 mg/kg/day/q6h IV (max 18 g/day as pip)-may add extra pip for total 24 g/day
Prednisone asthma: 2 mg/kg PO x1 (max 80 mg/dose), then 2 mg/kg/day/q12h PO
Procainamide <1 year: Load 3-7 mg/kg IV over 30 min; then 20-80 mCg/kg/min IV
>1 year: Load 5-15 mg/kg IV over 30 min; then 20-80 mCg/kg/min IV
Prochlorperazine 0.4 mg/kg/day/q6h prn PO/PR (max 10 mg/dose), 0.13 mg/kg/dose IM (IV with caution) q6h prn
Prostaglandin E₁ (see alprostadil)
Racemic epinephrine 2.25%: 0.25 mL (< 5 kg), 0.5 mL (>5 kg) INH q1h prn
Ranitidine** 3 mg/kg/day/q8h IV (max 60 mg/dose) or 4 - 6 mg/kg/day/q12h PO (max 150 mg/dose)
Sodium Bicarbonate (1 mEq/mL) 1 mEq/kg = 1 mL/kg IV/IO slow (use 0.5 mEq/mL concentration {2 mL/kg} for neonates)
tPA (Alteplase)
 catheter clearance] volume of catheter + 10% (max 2 mg/2 mL) in clogged port for 20 min - 2 hrs, then withdraw
 systemic thrombolytic therapy: 0.1 - 0.6 mg/kg/hr IV x 6 hrs (consult heme service)
Terbutaline 10 mCg/kg IV/SC x1, then 0.4 - 6 mCg/kg/min IV
 Suggested max total β₂-agonist dose = 20 mg/hr
Thiopental Increased ICP: 1.5 - 5 mg/kg; Intubation: see RSI
Tobramycin*** same as gentamicin
Unasyn®* (see ampicillin/sulbactam)
Valproic acid 20 mg/kg IV bolus (SE run at 5 mg/kg/min, non-SE run over 1 hour), then 15-100 mg/kg/day/q6h IV OR 15-100 mg/kg/day/q8h PO
Vancomycin*** (RD, √ trough with third dose, trough 5 - 15) 40 - 60 mg/kg/day/q6 - 8h IV (usual adult 2 g/day)

Vasopressin

Dl: 0.5 milliunits/kg/hr IV, double dose q30min prn to effect (UO < 2mL/kg/hr) to max 10 milliunits/kg/hr
GI Bleed: 2 - 5 milliunits/kg/min IV, titrate as needed. Once no bleeding x12 hrs taper off over 24 - 48 hrs.
Pulseless VT/VF: adult 40 units IV x1

Vecuronium

0.1 mg/kg/dose IV q1h prn
 Continuous infusion 0.05 - 0.2 mg/kg/hour IV

Vitamin K₁

(see phytonadione)

Zosyn®**

(see piperacillin/tazobactam)

NF = non-formulary, outpatient use only
RD = Restricted antibiotic. Page beeper BUGG (2844) for approval.
*Dose adjust for creatinine clearance <30 mL/min/1.73m²
**Dose adjust for creatinine clearance <50 mL/min/1.73m²
***Dose adjust for creatinine clearance <70 mL/min/1.73 m²

Procedural Sedation

Chloral Hydrate 50 – 100 mg/kg/dose PO/PR x1, may repeat in 30 min with 25 - 75 mg/kg PO/PR x 1 (max total dose 100 mg/kg; 1 gm infants < 1 yo, 2 gm children)

Fentanyl 1-2 mcg/kg/dose IV x1 (max 100 mcg/dose); repeat dose 1 mcg/kg/dose (max 50 mcg/dose) q3 min; max 5 mcg/kg or 500 mcg, whichever is less

Ketamine 1 - 2 mg/kg/dose IV x1 (max 100mg/dose), repeat dose 0.5 mg/kg/dose IV (max 50 mg/dose) q2-5min, max 5 mg/kg or 500 mg; 4-5 mg/kg/dose IM with atropine 0.02 mg/kg/dose (min 0.1 mg, max 0.5 mg) x1, may repeat ketamine 2 mg/kg IM x 1 if inadequate sedation in 10 min

Midazolam IV: 0.05 - 0.1 mg/kg/dose IV x 1 (max 2 mg/dose), may repeat q3 min at 0.05 mg/kg (total max 0.3 mg/kg or 10mg, whichever is less)
PO: 0.25 - 0.75 mg/kg/dose PO (max 15 mg); Intranasal: 0.2 mg/kg/dose

Pentobarbital 1 - 2 mg/kg/dose (max 100 mg/dose) IV q5 min until asleep (total max 6 mg/kg or 300 mg, whichever is less); 2 - 6 mg/kg/dose PO x1

Reversal Agents

Opioids: **Naloxone** Full reversal: 0.1 mg/kg/dose IV/IM/ET* (max 2 mg/dose) or **Nalmefene** 0.25 mcg/kg/dose IV (max 40 mcg) q2min to a max of 1 mcg/kg (max 0.5 mg)

Benzodiazepines: **Flumazenil:** 0.01 mg/kg/dose IV (max 0.2 mg/dose). May repeat prn to 0.05 mg/kg or 1 mg total, whichever is less.

Non-Depolarizing Muscle Relaxants: **Neostigmine** 0.07 mg/kg IV (max 5 mg total), premed first with glycopyrrolate 5 - 15 mcg/kg/dose IV

Sexual Assault (adolescent)

Ceftriaxone 125 mg IM x 1 or **Cefixime** 400 mg PO x 1;
Azithromycin 1 gm PO x 1; **Combivir** 2 tab PO x1 then 1 tab PO BID. **PlanB** 1.5 mg (2 tabs) PO x1; Also consider **metronidazole** 2 g PO x 1.

Age, Approximate Body Size, and Airway

Age	Birth	6mth	1 yr	2 yr	3 yr	4	5 yr	6 yr	8 yr	10 yr	12 yr	14 yr	Adult
Average Weight (kg)	3.5	7	10	12	14	16	18	20	25	30	40	50	70
Approx. BSA (m ²)	0.25	0.38	0.49	0.55	0.64	0.74	0.76	0.82	0.95	1.18	1.34	1.50	1.73
ETT Size (Age + 16) / 4	3-3.5	3.5-4	4	4.5	4.5	5	5	5.5	6	6.5	7	7	7.5-8

PALS medications

Bradycardia:

Epinephrine

IV: (1:10,000): 0.1 mL/kg (0.01 mg/kg) IV/IO q3min
ET: (1:1,000): 0.1 mL/kg (0.1 mg/kg) ET q3min

Atropine 0.02 mg/kg/dose IV/IO (min 0.1 mg/dose, max 1 mg/dose); repeat x 1 prn; ET dose 2 - 10 x IV dose

VF/Pulseless VT:

Epinephrine (see above)

Lidocaine 1 mg/kg IV/IO x1, infusion 20 - 50 mCg/kg/min IV/IO; ET dose 2 - 10 x IV dose

Amiodarone

VF/VT arrest: 5 mg/kg IV/IO (max 300 mg/dose)
Dysrhythmia (unstable): 5 mg/kg IV/IO over 20 - 60 min

PEA/asystole:

Epinephrine (see above)

PSVT:

Adenosine 0.1 mg/kg rapid IV/IO (max 6 mg/initial dose). If not effective repeat 0.2 mg/kg rapid IV/IO (max 12 mg/dose)

Rapid Sequence Intubation

Premedication:

Atropine (< 7 years): 0.02 mg/kg/dose IV (min 0.1 mg/dose, max 1 mg/dose); repeat x 1 prn

Lidocaine 1 mg/kg IV x1

Anesthetics/Sedatives:

Etomide 0.3 mg/kg/dose IV

Ketamine 0.5 - 2 mg/kg/dose IV; 3 - 7 mg/kg/dose IM

Lorazepam 0.1 mg/kg/dose IV (max 4 mg/dose)

Midazolam 0.1 mg/kg/dose IV (max 2 mg/dose)

Thiopental 4 - 6 mg/kg/dose IV

Paralytics:

Rocuronium 0.6 - 1.2 mg/kg/dose IV

***Succinylcholine** 1 - 2 mg/kg/dose IV, (2 mg/kg/dose if <1 yo); 3 - 4 mg/kg/dose IM (max 150 mg/dose)
(*For succinylcholine, premed with atropine < 7 y)

Vecuronium for sustained paralysis post-intubation: 0.05 – 0.2 mg/kg/hr

Blood Products

Albumin (5%) 10 mL/kg = 0.5 g/kg; **Cryoprecipitate** 1 unit/10 kg; **Factor VIIa** 90 mCg/kg/dose, repeat q2h

Factor VIII 15 - 50 units/kg; **FFP** 10 - 15 mL/kg

Packed red cells 10 mL/kg will raise Hct ~ 10%

Platelets 1 unit/10 kg will raise count ~ 50,000

Cardioversion/Defibrillation

SVT or V-tach with pulse: 0.5 - 1 joules/kg synchronized x1; If no response, 2 joules/kg synchronized x1

V-fib or pulseless V-tach: 2 joules/kg x1, 4 joules/kg x2 (adult 200 joules, 300 joules, 360 joules)