

PARALYTICS:

Vecuronium	IV	0.1 mg/kg
Atracurium	IV	0.5 mg/kg
Rocuronium	IV	0.5-1 mg/kg
Succinylcholine	IV	1-2 mg/kg X 1 (not for use in burns, crush injuries or increased ICP)

ANTICONSULTANTS:

Dilantin (Phenytoin)	IV, PO	10-20 mg/kg/loading dose (Filter IV) 5 mg/kg/day divided BID (or TID) May need doses up to 10 mg/kg/day based on levels
Fosphenytoin	IM, IV	Same as phenytoin Written in "phenytoin equivalents (P.E.)"
Phenobarbital	IM, IV, PO	10-20 mg/kg/loading dose 3-5 mg/kg/dose every day or BID
Lorazepam (Ativan)	IV	0.1 mg/kg/dose Q10-20min
Valproic acid	IV, PO	10-15 mg/kg/day up to 60 mg/kg/day divided Q6H

THERAPEUTIC DRUG LEVELS:

Ranges are for troughs only (30 min before dose is due)
Recommended levels – clinical correlation is suggested

Phenytoin	10-20 mcg/mL (albumin must be normal)
Free phenytoin	1-2 mcg/mL
Phenobarbital	15-40 mcg/mL
Caffeine	8-20 mcg/mL
Carbamazepine	4-12 mcg/mL
Valproic Acid	50-100 mcg/mL
Vancomycin	5-15 (peaks not necessary unless ordered by attending M.D.)
Tobramycin/gentamicin	< 1.5
Tobramycin/gentamicin peak	8-12 for pneumonia

GI/:

Lasix	IM, IV, PO	1 mg/kg/dose
Ranitidine	IV	1 mg/kg/dose Q8H
	PO	1-2 mg/kg BID
Metoclopramide	IV, IM, PO	0.1-0.2 mg/kg Q6H
Senna	PO	< 2 yo 1.25-2.5 mL/dose daily or BID
		2-6 yo 2.5-5 mL/dose daily or BID
		> 6 yo 5-7.5 mL/dose daily or BID
Lactulose	PO	< 2 yo 5-20 mL divided BID or TID
		> 2 yo 20-90 mL divided BID or TID

MISCELLANEOUS DRIPS:

Insulin	0.05 units-0.1 units/kg/hr
Prostaglandin	0.05 mcg/kg/min
Isoproterenol	0.1-1.5 mcg/kg/min
Terbutaline	0.1-4 mcg/kg/min
Vasopressin	0.0005-0.01 units/kg/hr



ARNOLD PALMER HOSPITAL
For Children

CHILDREN'S CRITICAL CARE ASSOCIATES
PEDIATRIC INTENSIVE CARE UNIT

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The following are suggested dosages: Actual dosage is based on patient's clinical condition.

FLUID CALCULATION: Maintenance

Divide total by 24 = hourly rate	
1 st 10 kg body weight	100 mL/kg plus
2 nd 10 kg body weight	50 mL/kg plus
Each additional kg	20 mL/kg

BLOOD PRODUCTS:

PRBCs	10-15 mL/kg over 3-4 hours
FFP	10-15 mL/kg over 20-30 min
PLATELETS	dose as ordered by M.D. over 20-30 min
CRYO	dose as ordered by M.D. over 20-30 min
PLASMANATE	10-20 mL/kg IV over time ordered by M.D.
ALBUMIN (5%)	10-20 mL/kg IV over time ordered by M.D.
ALBUMIN (25%)	0.5-1 Gm/kg IV over time ordered by M.D.
IVIG	Dose varies by indication. See policy for infusion recommendations.

SPINAL PROTOCOL:

Solumedrol (methylprednisolone)	Load with 30 mg/kg over 15 min THEN 45 min after loading 5.4 mg/kg/hr for 23-47hr as ordered
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ICP MANAGEMENT: Target serum osmo < 320

3% Saline	5-10 mL/kg/dose	IV over 30 min
Mannitol	0.5-1 Gm/kg/dose	IV rate per M.D.

RESUSCITATION DRUGS:

pinephrine (1:10,000)	0.01 mg/kg IV (1 st dose or bradycardia)
pinephrine (1:1,000)	0.1 mg/kg IV (subsequent doses, or E.T. dose)
ropine	0.02 mg/kg IM/IV/ET (0.1 mg min dose, 0.5 mg max dose in child)
miodarone	5 mg/kg bolus IV/IO → drip
idocaine	1 mg/kg/bolus IV/ET → drip
extrose	0.5 Gm/kg (usually D25) IV
alcium Chloride 10%	20 mg/kg slow IV, may repeat
icarbonate	1-2 mEq/kg IV
magnesium Sulfate	50 mg/kg IV over 10 min

DRIP INFUSIONS:

to determine the hourly rate of infusion

1. weight in kg X ordered mcg/kg/min X 60
Conc (mcg/mL)

DRUG	DOSE
opamine	5-20 mcg/kg/min
obutamine	2-20 mcg/kg/min
pinephrine	0.1-1.5 mcg/kg/min
lorepinephrine (Levophed)	0.1-1.5 mcg/kg/min
henylephrine (Neosynephrine)	0.1-0.5 mcg/kg/min
ilrinone	50 mcg/kg bolus, over 10-30 min (optional) Then 0.375-0.75 mcg/kg/min
idocaine	1 mg/kg bolus Then 20-50 mcg/kg/min
miodarone	5 mcg/kg/min, max 10 mcg/kg/min

ANTI-HYPERTENSIVE DRIPS:

abetalol	1-3 mg/kg/hr (Load with 0.4 mg/kg)
icardipine	0.5-10 mcg/kg/min
lipride	0.5-8 mcg/kg/min

CARDIOVASCULAR:

Digoxin	IV	load 25 mcg/kg divided Q8H X 3 doses Maintenance 2.5 mcg/kg/dose BID
	PO	Maintenance 5 mcg/kg/dose BID
Adenosine	rapid IV push	0.1-0.2 mg/kg

ELECTROLYTE REPLACEMENT:

Potassium	IV	0.3 mEq/kg/dose over 1 hour
Calcium Gluconate	IV	100 mg/kg over 1 hour
Glucose	IV	1-2 mL/kg of D25W

ANTI-INFECTIVES:

+Acyclovir	IV	20 mg/kg/dose Q8H
*Amphotericin B	IV	1 mg/kg/dose daily DO NOT FILTER
#Lipid Ampho B (Abelcet)	IV	5 mg/kg/dose daily
Ampicillin	IV, IM	25-100 mg/kg/dose Q6H
Cefazolin (Ancef)	IV, IM	17-34 mg/kg/dose Q8H
Cefepime (Maxipime)	IV, IM	50 mg/kg/dose Q8-12H
Cefotaxime (Claforan)	IV, IM	100-200 mg/kg/day divided Q6H or Q8H (Used in infants < 2 months only)
Cefotetan (Cefotan)	IV, IM	20-40 mg/kg/dose Q12H
Cefoxitin (Mefoxin)	IV, IM	80-160 mg/kg/day divided Q6H or Q8H
Ceftriaxone (Rocephin)	IV, IM	50-100 mg/kg/dose daily
Cefuroxime (Zinacef)	IV, IM	25-50 mg/kg/dose Q8H
Ciprofloxacin (Cipro)	IV, PO	10-15 mg/kg/dose Q12H
Clindamycin	IV, IM	10 mg/kg/dose Q8H PO 10-30 mg/kg/day divided Q6-8H
Gentamicin	IM, IV	1.5-2.5 mg/kg/dose Q8H (1 mg/kg Q8H for G+ synergy)
Meropenem (Merrem)	IV	20-40 mg/kg/dose Q8H
Nafcillin	IM, IV	15-50 mg/kg/dose Q6H
Penicillin G	IM, IV	40,000-65,000 u/kg/dose Q4H
Tobramycin	IV, IM	2.5 mg/kg/dose Q8H Inhaled 80 mg Q12H
Unasyn (ampicillin/sulbactam)	IV, IM	25-100 mg/kg/dose Q6H
+Vancomycin	IV	10 mg/kg/dose Q6-8H (CNS infections 15-20 mg/kg/dose Q6-8H)
Zosyn (piperacillin/tazobactam)	IV	50-100 mg/kg/dose Q8H

*Infuse over 4-6H +Infuse over 1 hour # Infuse over 2 hours
All others should be infused over 30 min

ANALGESICS:

Fentanyl	IV	1-5 mcg/kg/dose Q1-2H Drip: 1-5 mcg/kg/hr
Morphine	IM, IV	0.1 mg/kg/dose Q2-4H Drip: 0.01 - 0.1 mg/kg/hr
Hydromorphone (Dilaudid)	IV, SC PO	0.015 mg/kg Q3-4H 0.06 mg/kg Q3-4H Drip: 0.05-1 mg/kg/hr
Acetaminophen	PO, PR	10-15 mg/kg Q4H (max 60 mg/kg/day or 4 Gm/day)
Ibuprofen	PO	10 mg/kg Q6H (max 40 mg/kg/day)
Tylenol #3 (APAP w/ codeine)	PO	0.5 - 1 mg codeine/kg/dose Q6H

SEDATIVES:

Chloral hydrate	PO, PR	25-50 mg/kg/dose Q4-6H (daily max: 1 g-infant, 2 g-child)
Lorazepam (Ativan)	IV, PO	0.1 mg/kg/dose Q4-6H Drip: 0.1-0.35 mg/kg/hr
Midazolam (Versed)	IV	0.1-0.3 mg/kg/dose Q1-2H Drip: 0.1-0.3 mg/kg/hr
Diazepam (Valium)	IV	0.1-0.3 mg/kg/dose Q2-4H (max dose 10 mg)
	PO	0.05 mg/kg/dose Q6H
Dexmedetomidine (Precedex)	IV	1 mcg/kg bolus (optional) 0.2-2 mcg/kg/hr

REVERSAL AGENTS:

Naloxone (Narcan)	IM, IV, ET	0.001 - 0.1 mg/kg/dose (max. dose 2 mg)
(Opioid reversal)		
Flumazenil (Romazicon)	IV	< 20 kg 0.01 mg/kg/dose (max 0.2 mg in 1 hr)
(Benzodiazepine reversal)		> 20 kg 0.2 mg/kg/dose (max 3 mg in 1 hr) given Q30-60 sec.

ANESTHETICS:

Pentobarbital	IV	3-20 mg/kg X 1 1-3.5 mg/kg/hr for increased ICP
Ketamine	IV	1-2 mg/kg/dose
Thiopental	IV	2-5 mg/kg