

Medication	Concentration (mg/mL) - Goal - 1 conc.; 2 possible	NEONATE (<15kg) Set Rounding (#-not used in neonates)	NEONATE Dose Limitations (mg/kg)	PEDS (≥ 15kg) Set Rounding	PEDS Dose Limitations (mg &/or mg/kg) - in MAR admin instructions
acetaminophen oral liquid (160 mg/5 mL)	32mg/mL	0.01 mL	Max dose: 5 doses in 24hrs	0.5 mL	Max dose: 5 doses in 24hrs
acetaZOLAMIDE oral syringe (25 mg/mL)	25 mg/mL	0.01 mL		0.1 mL	Max dose: 1000 mg/day
acyclovir oral syringe (40 mg/mL)	40 mg/mL	0.01 mL	Max dose: 20 mg/kg/dose	0.5 mL	
allopurinol oral syringe (20 mg/mL)	20 mg/mL	#	not used in neonates	0.1 mL	
amiodarone oral syringe (5 mg/mL)	5 mg/mL	0.01 mL		0.1 mL	
amLODIPine oral syringe (1 mg/mL)	1 mg/mL	0.01 mL	not used in neonates	0.1 mL	
amoxicillin oral syringe (50 mg/mL)	50 mg/mL	0.01 mL	Max dose: 90 mg/kg/day	0.5 mL	Max dose: 4 grams/day
amoxicillin oral syringe (80 mg/mL)	80 mg/mL	#	not used in neonates	0.5 mL	
amoxicillin-pot clavulanate oral suspension (250-62.5 mg/5 mL)	50-12.5 mg/mL	0.01 mL	Neonates	0.1 mL	Max dose: 4 grams/day
amoxicillin-pot clavulanate oral syringe (400-57 mg/5 mL)	80-11.4 mg/mL	#	not used in neonates	0.5 mL	Max dose: 4 grams/day
amoxicillin-pot clavulanate oral syringe (600-42.9 mg/5 mL)	120-8.58 mg/mL	#	not used in neonates	0.5 mL	Max dose: 4 grams/day
atenolol oral syringe (12.5 mg/6.25 mL)	2 mg/mL	0.01 mL		0.1 mL	
azaTHIOprine oral syringe (50 mg/mL)	50 mg/mL	#	not used in neonates	0.1 mL	
azithromycin oral syringe (200 mg/5 mL) - STANDARD	40 mg/mL	0.01 mL	Max dose: 20 mg/kg/dose	0.5 mL	Max dose: 20 mg/kg/dose or 1000 mg/dose
baclofen	5 mg/mL	#	not used in neonates	0.5 mL	
bethanechol oral syringe (5 mg/mL)	5 mg/mL	#	not used in neonates	0.1 mL	
bosentan oral syringe (6.25 mg/mL)	6.25 mg/mL	see dosing		see dosing	Standard dosing: 15.62 mg, 31.25 mg, 46.88 mg, 62.5 mg
brivaracetam	10 mg/mL		not used in neonates	0.1 mL	

buprenorphine oral syringe	75mcg/mL				
caffeine citrate solution (20 mg/mL)	20 mg/mL	0.01 mL		0.1 mL	
cannabidiol (Epidiolex)	100 mg/mL	#	not used in neonates	0,1	
captopril oral syringe (1 mg/mL)	1 mg/mL	0.01 mL	Max dose: 0.5 mg/kg/dose	0.1 mL	Max dose: 6 mg/kg/day or 450 mg/day
carbamazepine (20mg/mL)	20 mg/mL	#	not used in neonates	0.1 mL	
carvedilol oral syringe (0.1 mg/mL)	0.1 mg/mL	0.01 mL		0.1 mL	
carvedilol oral syringe (1.25 mg/mL)	1.25 mg/mL	#	not used in neonates	0.1 mL	
cefdinir oral syringe (50 mg/mL)	50 mg/mL	0.01 mL	Max dose: 14 mg/kg/day	0.5 mL	Max dose: 600 mg/day
cephalexin oral syringe (25 mg/mL)	25 mg/mL	0.01 mL		0.1 mL	Max dose: 4000 mg/day
cephalexin oral syringe (50 mg/mL)	50 mg/mL	#	not used in neonates	0.5 mL	Max dose: 4000 mg/day
cetirizine (1mg/mL)	1 mg/mL	2.5ml	not used in neonates	2.5mL	Max dose: 10 mg
chlorothiazide oral syringe (50 mg/mL)	50 mg/mL	0.01 mL		0.1 mL	
chlorthalidone oral syringe (50 mg/mL)	50 mg/mL				
cholicalfiferol	400 units/mL	0.5 mL		0.5 mL	Max dose: 2000 units/day
ciprofloxacin oral syringe (50 mg/mL)	50 mg/mL	0.01 mL	Max dose: 30 mg/kg/day	0.5 mL	
clarithromycin oral syringe (50 mg/mL)	50 mg/mL	#	not used in neonates	0.5 mL	Max dose: 500 mg/dose
clindamycin palmitate hcl oral syringe (15 mg/mL)	15 mg/mL	0.01 mL	Max dose: 30 mg/kg/day	0.1 mL	Max dose: 1800 mg/day
clonazepam oral suspension (0.1 mg/mL)	0.1 mg/mL				
cloNIDine hydrochloride oral syringe (0.1 mg/mL)	0.1 mg/mL	#	not used in neonates	0.1 mL	
cloNIDine hydrochloride oral syringe	20 mcg/mL (0.02 mg/mL)	0.01 mL		0.1 mL	
clopidogrel oral syringe (5 mg/mL)	5 mg/mL	#	not used in neonates	0.1 mL	
cycloSPORINE (SandIMMUNE) oral syringe (100 mg/mL)	100 mg/mL	#	not used in neonates	0.1 mL	
cycloSPORINE modified (NEORAL) oral syringe (100 mg/mL)	100 mg/mL	#	not used in neonates	0.1 mL	

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cyproheptadine oral syringe (0.4 mg/mL)	0.4 mg/mL	#	not used in neonates	0.1 mL	
dexamethasone oral syringe (0.1 mg/mL)	0.1 mg/mL	0.01 mL		0.1 mL	
dexamethasone oral syringe (1 mg/mL) - HIGH CONCENTRATION	1 mg/mL	#	contains alcohol; not used in neonates	0.1 mL	
dextrose oral gel 40% 1.2gm/3mL	0.4 mg/mL	0.01 mL		0.1 mL	
diazePAM oral solution (1 mg/mL)	1 mg/mL	0.01 mL	flec	0.1 mL	
dicyclomine oral syringe (2 mg/mL)	2 mg/mL	#	not used in neonates	0.1 mL	
digoxin oral syringe (50 mcg/mL)	50 mcg/mL	0.01mL		0.1 mL	
diphenhydrAMINE elixir (12.5 mg/5 mL)	2.5 mg/mL	#	not used in neonates	see dosing	Max dose: 50 mg Standard dosing: 3.12 mg, 6.25 mg, 12.5 mg, 25 mg, 50 mg
enalapril oral syringe (1 mg/mL)	1 mg/mL	0.01 mL		0.1 mL	
ergocalciferol (VITAMIN D2) oral syringe (8000 units/mL)	8000 units/mL	0.01 mL		0.1 mL	
Erythromycin ethylsuccinate oral syringe (40 mg/mL)	40 mg/mL	0.01 mL		0.1 mL	
escitalopram oxalate oral syringe (1 mg/mL)	1 mg/mL	#	not used in neonates	0.1 mL	
ethosuximide 50mg/mL (250 mg/5 mL - 30mL cup in Epic)	50 mg/mL	0.01 mL	not used in neonates	0.1 mL	Max daily dose: 60 mg/kg/day or 2,000 mg/day, whichever is less.
famotidine oral syringe (8 mg/mL)	8 mg/mL	0.01 mL	Max dose: 1 mg/kg/day	0.1 mL	Max dose: 2 mg/kg/day
ferrous sulfate oral syringe (15 mg/mL)	15 mg/mL	0.01 mL		0.1 mL	
flecainide oral syringe (20 mg/mL)	20 mg/mL	0.01 mL	Max dose: 100 mg/kg/day	0.1 mL	
fluconazole oral syringe (40 mg/mL)	40 mg/mL	0.01 mL	Max dose: 12 mg/kg/day	0.1 mL	Max dose: 12 mg/kg/day
flucytosine (50 mg/mL)	50 mg/mL	0.01 mL		0.1 mL	
FLUoxetine oral syringe (4 mg/mL)	4 mg/mL	#	not used in neonates	0.1 mL	
furosemide oral syringe (10 mg/mL)	10 mg/mL	0.01 mL		0.1 mL	
furosemide oral solution (alcohol free) (10 mg/mL)	10 mg/mL	0.01 mL		0.1 mL	

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gabapentin oral syringe (50 mg/mL)	50 mg/mL	0.01 mL		0.1 mL	
glycopyrrolate oral syringe (0.2 mg/mL)	200 mcg/mL	0.01 mL		0.1 mL	
hydrALAZINE oral syringe (4 mg/mL)	4 mg/mL	0.01 mL		0.1 mL	
hydrochlorothiazide oral syringe (5 mg/mL)	5 mg/mL	0.01 mL		0.1 mL	
hydrocortisone oral syringe (2 mg/mL)	2 mg/mL			0.1 mL	
hydrocodone/acetaminophen	0.5 mg hydrocodone- 21.67 mg apap /mL	0.01 mL	not used in neonates	0.1 mL	
hydroxyurea (100 mg/mL)	100 mg/mL	#	not used in neonates	0.1 mL	
hydroxyzine (2 mg/mL)	2 mg/mL	#	not used in neonates	0.1 mL	Max dose: 50 mg
hysoscyamine	0.125 mg/mL	0.01 mL		0.1 mL	
ibuprofen suspension (100 mg/5 mL)	20 mg/mL	#	not used in neonates	0.1 mL	Not used in infants <6 months; Max dose: 2400mg/day
itraconazole oral syringe (10 mg/mL)	10 mg/mL	0.01 mL		0.1 mL	Max dose: 400 mg/day
labetalol oral syringe (40 mg/mL)	40 mg/mL	0.01 mL		0.1 mL	Max dose: 2400 mg/day
lacosamide	10mg/mL	0.01 mL		0.1 mL	
lactulose oral suspension 20 gm/30mL	0.67 gm/mL		not used in neonates	1 mL	
lamivudine (10mg/mL)	10 mg/mL	0.01 mL		0.1 mL	Max dose 150 mg
lansoprazole oral 15mg solu-tab - 1/2 tab(7.5mg)	7.5mg dose(2mL)				
leucovorin oral syringe (5 mg/mL)	5 mg/mL	0.01 mL		1 mL	Standard dosing: 5 mg, 10 mg, 15 mg, 20 mg, 25 mg
levETIRAcetam oral solution (500 mg/5 mL)	100 mg/mL	0.01 mL		0.1 mL	
levOCARNitine oral syringe (100 mg/mL)	100 mg/mL	0.01 mL		0.5 mL	
levothyroxine oral syringe (25 mcg/mL)	25 mcg/mL	0.01 mL		0.5 mL	
linezolid oral syringe (20 mg/mL)	20 mg/mL	0.01 mL		0.1 mL	

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loperamide (1 mg/7.5mL)	0.13 mg/mL	0.01 mL	not used in neonates	0.1 mL	Max dose depends on age/weight: 2-5 y/o, 13-20 kg – 3 mg/day 6-8 y/o, 21-27 kg – 4 mg/day 9-11 y/o, 27.1-43 kg – 6 mg/day > 12 y/o – 8 mg/day
lorazepam	2mg/mL	0.01 mL		0.1 mL	
magnesium carbonate oral syringe (10.8 mg/mL)	10.8 mg/mL	0.01 mL		0.1 mL	
melatonin oral syringe (1mg/mL)	1 mg/mL			1 mL	Standard dosing: 1mg, 3mg, 5mg, 10mg
mercaptapurine oral syringe (20 mg/mL)	20mg/mL (commercial and hazardous but expensive)	#	not used in neonates	0.1 mL	
methadone solution (5 mg/5 mL)	1 mg/mL	0.01 mL			
metolazone	1mg/mL	0.01 mL	not used in neonates	0.1 mL	•Max dose 20 mg/day (adult max)
metoprolol oral syringe (10 mg/mL)	10 mg/mL	#	not used in neonates	0.1 mL	
metroNIDAZOLE oral syringe (50 mg/mL)	50 mg/mL	0.01 mL	Max dose: 15 mg/kg/dose	0.1 mL	
midazolam	2 mg/mL	0.01 mL		0.1 mL	
morphine oral syringe (0.4 mg/mL)	0.4 mg/mL <2kg	0.01 mL	Neonates	0.1 mL	
morphine oral syringe (10 mg/5 mL)	2 mg/mL	0.01 mL		0.1 mL	
mycophenolate (CELLCEPT) oral syringe (200 mg/mL)	200 mg/mL	#	not used in neonates	0.1 mL	
Na Citrate/citric acid (Bicitra)	1 mEq sodium & 1mEq of bicarbonate/mL	0.5 mL		0.5 mL	
Nevirapine (50mg/5mL)	10 mg/mL	0.01 mL		0.1 mL	
NIFEdipine (4 mg/mL)	4 mg/mL	#	not used in neonates	0.1 mL	
oseltamivir oral syringe (6 mg/mL)	6 mg/mL	0.01 mL		0.5 mL	
OXcarbazepine oral syringe (60 mg/mL)	60 mg/mL	#	not used in neonates	0.1 mL	

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PARoxetine hcl oral syringe (2 mg/mL)	2 mg/mL	#	not used in neonates	0.5 mL	
pedi multivit #40-phytonadione (AQUADEKS) oral drops (400 mcg/mL)	400 mcg/mL	0.3 mL, 0.5 mL, 1 mL		0.5 mL, 1 mL, 2 mL	Standard dosing: 0.3 mL, 0.5 mL, 1 mL, 2 mL
pediatric multivitamin-iron oral syringe		0.3 mL, 0.5 mL, 1 mL		0.5 mL, 1 mL, 2 mL	Standard dosing: 0.3 mL, 0.5 mL, 1 mL, 2 mL
pediatric multivitamin no.81 oral syringe		0.3 mL, 0.5 mL, 1 mL		0.5 mL, 1 mL, 2 mL	Standard dosing: 0.3 mL, 0.5 mL, 1 mL, 2 mL
pediatric multivitamin oral syringe		0.3 mL, 0.5 mL, 1 mL		0.5 mL, 1 mL, 2 mL	Standard dosing: 0.3 mL, 0.5 mL, 1 mL, 2 mL
penicillin v potassium oral syringe (50 mg/mL)	50 mg/mL	0.01 mL		0.1 mL	
phenytoin	25 mg/mL	0.01 mL		0.1 mL	
phenobarbital	4 mg/mL	0.01 mL		0.1 mL	
phytonidiaone	1mg/mL				
posaconazole oral syringe (40 mg/mL)	40 mg/mL	#	not used in neonates	0.1 mL	
potassium acetate oral syringe (1 mEq/mL)	1 mEq/mL				
potassium chloride oral syringe	1 mEq/mL	0.01 mL	not available outpatient	0.5 mL	not available outpatient
prednisOLONE (ORAPRED) oral syringe (15 mg/5 mL)	3 mg/mL	0.01 mL		0.1 mL	
predniSONE oral syringe (1 mg/mL)	1 mg/mL	0.01 mL		0.1 mL	
promethazine oral syringe (1.25 mg/mL)	1.25 mg/mL	#	not used in neonates	0.5 mL	Max dose: 50 mg
propranolol oral syringe (4 mg/mL)	4 mg/mL	0.01 mL		0.1 mL	
propranolol oral syringe (8 mg/mL)	8 mg/mL	#	not used in neonates	0.5 mL	
pyrazinamide (100 mg/mL)	100 mg/mL	#	not used in neonates	0.1 mL	
rifAMPin oral suspension (25 mg/mL)	25 mg/mL	0.01 mL	Max dose: 20 mg/kg/day	0.1 mL	Max dose: 600 mg/day
risperiDONE oral syringe (1 mg/mL)	1 mg/mL	#	not used in neonates	0.1 mL	
sildenafil oral syringe (2.5 mg/mL)	2.5 mg/mL	0.01 mL	Max dose: 2 mg/kg/dose	0.1 mL	Max dose: 2 mg/kg/dose
simethicone oral syringe (40 mg/0.6 mL)	66.7 mg/mL	see dosing		see dosing	Standard dosing: 20 mg, 40 mg

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sodium chloride oral syringe (1 mEq/mL)	1 mEq/mL	0.01mL	not available outpatient	0.5 mL	not available outpatient
Sodium Phos - IV vial given PO	1 mmol/mL	0.01 mL		0.1 mL	
sotalol oral suspension (5 mg/mL)	5 mg/mL	0.01 mL		0.1 mL	
spironolactone oral syringe (5 mg/mL)	5 mg/mL	0.01 mL	Max dose: 3.3 mg/kg/dose	0.5 mL	
sulfamethoxazole-trimethoprim oral syringe (40-8 mg/mL)	40-8 mg/mL	# - *not recommended for <2 months		not used in neonates	0.5 mL
tacrolimus oral syringe (1 mg/mL)	1 mg/mL	0.01 mL		0.1 mL	
thioguanine (20 mg/mL)	20 mg/mL	#	not used in neonates	0.1 mL	
topiramate (20 mg/mL)	20 mg/mL	0.01 mL		0.1 mL	
ursodiol oral syringe (25 mg/mL)	25mg/mL	0.01 mL		0.1 mL	
ursodiol oral syringe (60 mg/mL)	60 mg/mL	#	not used in neonates	0.1 mL	
valACYclovir (50 mg/mL)	50 mg/mL	0.01 mL		0.1 mL	
valGANciclovir oral syringe (50 mg/mL)	50 mg/mL	0.01 mL		0.1 mL	Max dose: 900 mg/dose
vancomycin (25 mg/mL)	25 mg/mL	0.01 mL		0.1 mL	
verapamil oral syringe (50 mg/mL)	50 mg/mL	#	not used in neonates	0.1 mL	
voriconazole oral syringe (40 mg/mL)	40 mg/mL	0.01 mL		0.1 mL	
zidovudine (10 mg/mL)	10 mg/mL	0.01 mL		0.1 mL	
ziprasidone (2.5 mg/mL)	2.5 mg/mL		not used in neonates	0.1 mL	
zonisamide (10 mg/mL)	10 mg/mL	#	not used in neonates	0.1 mL	

General rules (Approved generally by system peds med safety, and other peds groups)

- *(PEDS)
- *call all of these oral liquid
- *route standardization - no default route, 5 buttons with routes
- *Standardize conc./products/units/ TALLman lettering
- *# - not for neonates – default admin instructions.
- *mg/kg dosing default, but assess per med
- *10% max dose alert, evaluate per med; new Peds ERX if necessary
- *Compounding designator – most likely CNR

Reviewer/Committee	Title/Committee Chair	Date of Review
<i>Directors of Pharmacy</i>	<i>Debbie Simonson</i>	<i>Oct 18, 2021</i>
<i>System Clinical Pharmacy Team</i>	<i>Catherine Oliver</i>	<i>Sept 23, 2021 Oct 11, 2021</i>
<i>System Operational Pharmacy Team</i>	<i>Jason Chou</i>	<i>Sept 28, 2021</i>
<i>System Medication Safety Sub-Committee</i>	<i>Rhonda Liberto Jason Hill, MD</i>	<i>Sept 21, 2021</i>
<i>System Pediatric Medication Safety Sub-Committee</i>	<i>Rhonda Liberto TBD, MD</i>	<i>Oct 05, 2021</i>
<i>DOP Policy Committee</i>	<i>Paul Menasco</i>	<i>Sept 30, 2021 Oct 7, 2021</i>
<i>System P&T Committee</i>	<i>Debbie Simonson John Cole, MD</i>	<i>Oct 20, 2021</i>