INTRAVENOUS MEDICATIONS PROVIDED BY PHARMACY

THE FOLLOWING MEDICATIONS DO NOT REQUIRE FURTHER DILUTION FOR ADMINISTRATION

ACYCLOVIR
AMPHOTERICIN B
AZATHIOPRINE
CEFROXIME
CHLORAMPHENICOL
CYCLOSPORINE
DESMOPRESSIN ACETATE
DIAZEPAM
DIGOXIN
DOXYCYCLINE
ERYTHROMYCIN
FLUCONAZOLE
HYDROCORTISONE
IMIPENEM-CILASTATIN
LEUCOVORIN CALCIUM
METHYLPRERDNSOLONE
METOCLOPRAMIDE
METRONIDAZOLE
MIDAZOLAM
PENTOBARBITAL
PHENOBARBITAL
PHENYTOIN
PROMETHAZINE
TRIMETHOPRIM-SULFAMETHOXAZOLE
VANCOMYCIN

THE FOLLOWING MEDICATIONS DO REQUIRE FURTHER DILUTION FOR ADMINISTRATION

AMIKACIN
AMPICILLIN
AMPICILLIN/SULBACTAM
AZTREONAM
CALCIUM CHLORIDE
CALCIUM GLUCONATE
CEFTRIAXONE
CHLORPROMAZINE
CIMETIDINE
CLINDAMYCN
GENTAMICIN
LORAZEPAM
MAGNESIUM SULFATE
MEZLOCILLIN
NAFCILLIN
OXACILLIN
PENICILLIN GK
PENICILLIN GNA
PHYTNAONIE
PIPERCILLIN
POTASSIUM ACETATE
POTASSIUM CHLORIDE
POTASSIUM PHOSPHATE
RANITIDINE
SODIUM ACETATE
SODIUM PHOSPHATE
TICARCILLIN
TICARCILLIN/CLAVALANATE
TOBRAMYCIN

THE FOLLOWING MEDICATIONS MAY REQUIRE FURTHER DILUTION FOR ADMINISTRATION

AMINOPHYLLINE
CEFOTAXIME
CEFOTAXINE
CEFOTAXIN
CEFTAZIDIME

Please refer to the attached Administration Guidelines for additional information.
## Administration Guidelines for Intravenous Medication in Pediatric Patients

<table>
<thead>
<tr>
<th>Medication</th>
<th>Initial Concentration sent up by Pharmacy</th>
<th>Maximum Concentration for Peripheral IV Administration</th>
<th>Maximum Concentration for Central IV Administration</th>
<th>Recommended Infusion Time</th>
<th>Minimum Infusion Time or Maximum Rate</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetazolamide</td>
<td>500 mg vial</td>
<td>100 mg/ml</td>
<td>100 mg/ml</td>
<td>100 mg/min</td>
<td>100 mg/min</td>
<td></td>
</tr>
<tr>
<td>(Diamox)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>acyclovir</td>
<td>Dose ≤ 420 mg in syringe</td>
<td>Ready to infuse</td>
<td>Ready to infuse</td>
<td>60 minutes</td>
<td>60 minutes</td>
<td>Do not refrigerate; Pediatric Infectious Disease restricted</td>
</tr>
<tr>
<td>(Zovirax)</td>
<td>Dose &gt; 420 mg in piggyback (≤7mg/ml)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>albumin</td>
<td>0.05 gm/ml (5%)</td>
<td>0.25 mg/ml</td>
<td>0.25 gm/ml</td>
<td>over 4 hrs</td>
<td>over 2 hrs</td>
<td>25% contraindicated in neonates; Contains 0.145 mEq/ml sodium</td>
</tr>
<tr>
<td></td>
<td>0.25 gm/ml (25%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>amikacin</td>
<td>250mg/ml</td>
<td>5mg/ml</td>
<td>5 mg/ml</td>
<td>30 minutes</td>
<td>30 minutes</td>
<td>60 minutes in infants</td>
</tr>
<tr>
<td>aminophylline</td>
<td>25 mg/ml</td>
<td>12.5 mg/ml</td>
<td>12.5 mg/ml</td>
<td>20-30 minutes</td>
<td>not &gt; 25 mg/min</td>
<td>For continuous infusion, the standard concentration is 1 mg/ml</td>
</tr>
<tr>
<td>amphotericin B</td>
<td>Doses:</td>
<td>Ready to infuse</td>
<td>Ready to infuse</td>
<td>Over 6 hours</td>
<td>Over 4 hours</td>
<td>0.1 mg/ml for fluid restricted patients on request (May be concentrated to 0.25 mg/ml in fluid-restricted patients with central venous access); Pediatric Infectious Disease Restricted</td>
</tr>
<tr>
<td></td>
<td>0.25mg, 25ml DSW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.5mg, 50ml DSW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10mg, 100ml DSW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>25mg, 250ml DSW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>50mg, 500ml DSW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>≤100mg,1000ml DSW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ampicillin</td>
<td>vial</td>
<td>30 mg/ml</td>
<td>100 mg/ml</td>
<td>15 minutes</td>
<td>100 mg/min</td>
<td>Give within 1 hour after reconstitution; Doses &gt; 500 mg will be made in over 15 minutes in a piggyback on request</td>
</tr>
<tr>
<td>sulbactam (Unasyn)</td>
<td>vial</td>
<td>30mg/ml as Ampicillin</td>
<td>100 mg/ml as Ampicillin</td>
<td>15 minutes</td>
<td>15 minutes</td>
<td>1.5 g contains Ampicillin 1 g, Sulbactam 500 mg; 3.0 g contains Ampicillin 2 g, Sulbactam 1 g</td>
</tr>
</tbody>
</table>

**Note:** All medications prepared in a syringe will contain at least 0.1 ml of overfill.