



## LPCHS Formulary Antimicrobials

### GENERAL INFORMATION

- The doses provided are general recommendations and do NOT include ***neonatal dosing, cystic fibrosis dosing, or renal dose adjustment***.
- Please refer to the **Housestaff Manual (HSM)** or **Neofax** for additional recommendations and **indication-specific dosing**.
- Maximum individual doses in parentheses.
- Renal dose adjustment** parameters indicated by **superscript** (see HSM for renal dosing):
  - <sup>1</sup> Adjustment needed if CrCl < 70 mL/min
  - <sup>2</sup> Adjustment needed if CrCl < 50 mL/min
  - <sup>3</sup> Adjustment needed if CrCl < 30 mL/min
- All inpatient restricted antimicrobial use, including continuation of home medications, requires Pediatric Infectious Disease (ID) approval. Contact the Pediatric ID fellow on-call for approval.
- For assistance, consult ASP or ID.

### ABBREVIATIONS

(ID) = Requires ID approval for use (please note process in HSM for details and exclusions);  
**Amphotericin B products, Ceftazidime-avibactam, Cidofovir, Foscarnet, Isavuconazonium, Linezolid, Posaconazole, Remdesivir**  
**All non-formulary antimicrobials, e.g., daptomycin**  
**(PI)** = Prolonged infusion (i.e., extended infusion, continuous infusion) may be considered; use Epic order panel  
**(Px)** = Prophylaxis; **(Tx)** = Treatment  
**(TDM)** = Therapeutic drug monitoring recommended  
**(TMP/SMX)** = Trimethoprim/sulfamethoxazole

### THERAPEUTIC DRUG MONITORING\*

| DRUG                     | DOSING       | TROUGH                |
|--------------------------|--------------|-----------------------|
| Amikacin                 | Q8h          | < 8                   |
|                          | Q24h         |                       |
| Gentamicin or Tobramycin | Q8h          | < 1                   |
|                          | Q24h         |                       |
| Isavuconazonium (ID)     | Q24h         | 1—7                   |
| Posaconazole (ID)        | Variable     | Px >0.7               |
|                          |              | Tx >1 (salvage >1.25) |
| Vancomycin               | Per Pharmacy | AUC 400—600           |
| Voriconazole             | Q12h         | 1—5.5                 |

\*See the HSM for the "Azole Antifungal Monitoring Guidance" and "Aminoglycoside Guideline" for additional information and targets.

| PARENTERAL (IV) ANTIBIOTICS   |  | TMP-SMX <sup>3</sup><br>(dose based on trimethoprim) | Treatment: 3-6 mg/kg/dose q12h (160mg)<br><i>Stenotrophomonas/PJP:</i> 5 mg/kg/dose q8h (320mg) | ANTIFUNGALS                  |   |
|---|--|--|---|------------------------------|---|
| Amikacin <sup>2</sup><br>(TDM)  | 7.5 mg/kg/dose q8h (500mg)<br>15—20 mg/kg/dose q24h (1.5g)   |  |   | Liposomal amphotericin (ID)  | IV: 3—5 mg/kg/dose q24h   |
| Ampicillin <sup>3</sup>   | 50—100 mg/kg/dose q6h (2g)   |  |   | Caspofungin                  | Tx/Px: IV: Load 70 mg/m <sup>2</sup> once (70mg), then 50 mg/m <sup>2</sup> daily (50mg)  |
| <b>ENTERAL (PO) ANTIBIOTICS</b>   |  |  |   |                              |   |
| Amoxicillin <sup>3</sup>  | 12.5—30 mg/kg/dose TID (1g)<br><i>S. pneumoniae:</i> 40—45 mg/kg/dose BID (2g)   |  |   | Fluconazole <sup>2</sup>     | IV/PO: Loading dose 6—12 mg/kg/dose once, followed by 3—12 mg/kg/dose daily (800mg)   |
| Amoxicillin-clavulanate <sup>3</sup><br>(dose based on amoxicillin; note ratio of amoxicillin to clavulanate (e.g., 7:1)] | See age-specific HSM recommendations<br>General dosing (7:1): 22.5 mg/kg/dose BID (875 mg)<br><i>S. pneumoniae</i> coverage (14:1 or 16:1): 40—45 mg/kg/dose BID (2g)<br>Urinary tract infection (4:1): 13 mg/kg/dose TID (500 mg) |  |   | Isavuconazonium (ID) (TDM)   | IV/PO: 10 mg/kg q8h x 6 doses, then 10 mg/kg daily (372 mg)   |
| Azithromycin  | 10 mg/kg on day 1 (500mg), then 5 mg/kg (250mg) q24h on days 2-5   |  |   | Posaconazole (ID) (TDM)      | See age-specific HSM recommendation<br>Tx/Px (tablet): 5-7 mg/kg/dose PO BID x 1 day, then 5-7 mg/kg/dose (50-mg increments) PO once daily (300 mg) |
| Cefdinir <sup>3</sup>   | 7 mg/kg/dose BID or 14 mg/kg/dose daily (600mg)  |  |   | Voriconazole (TDM)           | See age-specific HSM recommendation<br>Tx/Px: IV/PO: 6—9 mg/kg/dose q12h x 2 doses, then by 3—9 mg/kg/dose q12h                                     |
| <b>ANTIVIRALS</b>   |  |  |   |                              |   |
| Acyclovir <sup>2</sup>  | >70kg: Use ideal body weight<br>Tx: IV: 10—15 mg/kg/dose q8h (800mg); PO: 15—20 mg/kg/dose 3-5x/day (800mg); hydration required<br>Px: IV: 5 mg/kg/dose or 250 mg/m <sup>2</sup> q8h (300mg); PO: 10—15 mg/kg/dose TID (300mg)     |  |   | Cidofovir (ID) <sup>2</sup>  | 1 mg/kg/dose IV 3 x/week or 5 mg/kg/dose once weekly (hydration required; +/- probenecid)   |
| Foscarnet <sup>1</sup> (ID)   | Induction<br>Tx: 60—90 mg/kg/dose IV q12h  |  |   | Ganciclovir <sup>1</sup>     | Induction<br>Tx: 5 mg/kg/dose IV q12h<br>Px: 5 mg/kg/dose IV q24h   |
| Oseltamivir <sup>3</sup>  | Tx: 3—3.5 mg/kg/dose PO BID (75mg)<br>Px: 3 mg/kg/dose daily (75mg)  |  |   | Remdesivir <sup>3</sup> (ID) | 5 mg/kg IV (200 mg) x 1, then 2.5 mg/kg (100 mg) IV q24h  |
| Valacyclovir <sup>2</sup>   | Tx: 20 mg/kg/dose PO BID (1g)<br>Px: 250—500 mg PO BID   |  |   | Valganciclovir <sup>1</sup>  | Tx: 12—20 mg/kg/dose PO q12h (900mg)<br>Px: 10—15 mg/kg/dose PO daily (900mg)   |