

Liposomal Amphotericin B (L-AmB / AmBisome®)

IV Only

Use requires formal ID Consult

Activity: Broad-spectrum antifungal activity with in vitro activity against *Candida*, *Cryptococcosis*, *Aspergillus*, *Zygomycosis*, and *Fusarium*

Dosing of AmBisome and Amphotericin B deoxycholate is significantly different and NOT interchangeable.

Do **NOT** use AmBisome doses for Amphotericin B deoxycholate and vice versa

Criteria for Use:

- Unable to use conventional amphotericin B deoxycholate due to:
 - Pre-existing renal insufficiency defined as SCr of ≥ 2 mg/dL or calculated CrCl of ≤ 25 mL/min, or SCr doubled from baseline
 - Refractory to or cannot tolerate conventional amphotericin B deoxycholate
 - SCr > 1.5 mg/dL and receiving concomitant cyclosporine or tacrolimus
- Patients with irreversible ESRD on chronic HD or PD should receive **amphotericin B deoxycholate**

Dosing in Adults:

- Standard dose:
 - Febrile neutropenia: 3 mg/kg/day
 - May consider 5 mg/kg/day in patients with neutropenia > 10 days, evidence of fungal infection, or clinically unstable
 - Documented yeast (*Candida* spp., others) infection: 3-5 mg/kg/day
 - Documented mold (*Aspergillus* spp., others) infection: 3-5 mg/kg/day
 - Endophthalmitis: 5 mg/kg/day \pm Flucytosine 25 mg/kg PO Q6H
 - Endocarditis: 5 mg/kg/day \pm Flucytosine 25 mg/kg PO Q6H
 - Cryptococcal meningitis: 4 mg/kg/day \pm Flucytosine 25 mg/kg PO Q6H
- No renal/ hepatic dose adjustment
- Administering 500mL to 1000mL of normal saline may decrease nephrotoxicity

Monitoring:

- BUN/SCr, K, Mg, Phos at baseline and daily in hospitalized patients; AST/ALT at baseline and every 1-2 weeks
- Infusion related reactions such as fever, chills & myalgia are common
 - Consider premedication with diphenhydramine and/or acetaminophen
 - Consider infusing over 4 to 6 hours

ALT= Alanine aminotransferase; AST= Aspartate aminotransferase; BUN= Blood urea nitrogen; CrCl= Creatinine clearance; ESRD= End-stage renal disease; H= hour(s); HD= Hemodialysis; ID= infectious diseases; IV= Intravenous; K= Potassium; Mg= Magnesium; PD= Peritoneal dialysis; Phos= Phosphorus; PO= by mouth; Q= every; SCr= Serum creatinine; spp= species