



## Antibiotic Compatibility in Initial Management of Severe Infections & Sepsis

**IMPORTANT: Delays in antibiotic administration increases mortality in the treatment of sepsis**

### Sepsis Antibiotic Treatment Goals:

- Begin as soon as possible after cultures drawn (i.e. Blood x 2 and Urine)
- Start broad spectrum antibiotic FIRST unless directed otherwise or if dispensing delay
- Recommend concurrent Y-site administration if compatible

Broad Spectrum Antibiotic (Start antibiotic in this column FIRST!)	Antibiotic	Y-site Compatibility
<b>Ampicillin-sulbactam</b>	<b>Gentamicin or Tobramycin</b>	<b>NO</b>
<b>Cefepime</b>	<b>Azithromycin</b>	<b>YES</b>
	<b>Doxycycline</b>	<b>NO</b>
	<b>Metronidazole</b>	<b>YES</b>
	<b>Vancomycin</b>	<b>YES</b>
<b>Ceftriaxone</b> <i>(Compatible with NS, not compatible with LR)</i>	<b>Azithromycin</b>	<b>NO</b>
	<b>Doxycycline</b>	<b>YES</b>
	<b>Gentamicin</b>	<b>YES</b>
	<b>Metronidazole</b>	<b>YES</b>
	<b>Tobramycin</b>	<b>NO</b>
	<b>Vancomycin</b>	<b>NO</b>
<b>Levofloxacin</b>	<b>Clindamycin</b>	<b>YES</b>
	<b>Metronidazole</b>	<b>YES</b>
	<b>Vancomycin</b>	<b>YES</b>
<b>Meropenem</b>	<b>Vancomycin</b>	<b>YES</b>
<b>Piperacillin-tazobactam</b> <i>(Compatible with NS, most products <u>not</u> compatible with LR)</i>	<b>Azithromycin</b>	<b>NO</b>
	<b>Clindamycin</b>	<b>YES</b>
	<b>Doxycycline</b>	<b>NO</b>
	<b>Vancomycin</b>	<b>YES*</b> <i>(concentration dependent)</i>

\*Note: piperacillin-tazobactam (Zosyn®) and vancomycin are compatible via y-site based on SHC standard concentrations.