



**Antibiotic Compatibility in Initial Management of Severe Infections & Sepsis**  
**IMPORTANT: Delays in antibiotic administration increase 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
- Concurrent Y-site administration if compatible

Broad Spectrum Antibiotic <b>(Start antibiotic in this column FIRST!)</b>	Antibiotic	Y-site Compatibility
<b>Ampicillin-sulbactam</b> <i>(30 min infusion)</i>	<b>Gentamicin</b> <i>(30 min infusion)</i>	NO
<b>Cefepime</b> <i>(30 min infusion)</i>	<b>Doxycycline</b> <i>(1 hr infusion)</i>	NO
	<b>Metronidazole</b> <i>(1 hr infusion)</i>	YES
	<b>Vancomycin</b> <i>(1-2 hr infusion)</i>	YES
<b>Ceftriaxone</b> <i>(IV Push or 30 min infusion based on dose, compatible with NS, not compatible with LR)</i>	<b>Doxycycline</b> <i>(1 hr infusion)</i>	YES
	<b>Gentamicin</b> <i>(30 min infusion)</i>	YES
	<b>Metronidazole</b> <i>(1 hr infusion)</i>	YES
	<b>Vancomycin</b> <i>(1-2 hr infusion)</i>	NO
<b>Levofloxacin</b> <i>(1-1.5 hr infusion)</i>	<b>Clindamycin</b> <i>(30 min infusion)</i>	YES
	<b>Metronidazole</b> <i>(1 hr infusion)</i>	YES
	<b>Vancomycin</b> <i>(1-2 hr infusion)</i>	YES
<b>Meropenem</b> <i>(30 min infusion)</i>	<b>Vancomycin</b> <i>(1-2 hr infusion)</i>	YES
<b>Piperacillin-tazobactam</b> <i>(1<sup>st</sup> dose: 30 min infusion, compatible with NS, not compatible with LR)</i>	<b>Clindamycin</b> <i>(30 min infusion)</i>	YES
	<b>Doxycycline</b> <i>(1 hr infusion)</i>	NO
	<b>Vancomycin</b> <i>(1-2 hr infusion)</i>	YES*

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