

Neutropenic Sepsis (Non-Pregnant Adults): Immediate Antimicrobial Treatment Overview

REVIEW microbiology results from the last 6 months NOW. Check for history of MRSA colonisation and any ESBL-producing and/or ciprofloxacin resistant gram negatives.		
Read L → R	Appropriate regimen = 1 + 2	
	Pillar 1: Streptococcal and staphylococcal cover	Pillar 2: Gram negative cover, including cover for <i>P. aeruginosa</i>
No penicillin allergy No history of piperacillin-tazobactam resistant or ESBL-producing gram negatives Not colonised with MRSA	Piperacillin-tazobactam IV 4.5g 6 hourly AND gentamicin IV as per gentamicin dosage guidelines	
Penicillin allergy No history of ESBL – producing gram negatives	Vancomycin IV as per vancomycin dosage guidelines	Gentamicin IV as per gentamicin dosage guidelines or Ciprofloxacin IV 400mg 8 hourly
Previous ESBL- producing organisms. Not colonised with MRSA	Meropenem* IV 1g 8 hourly	
Previous ESBL-producing organisms and colonised with MRSA	Vancomycin IV as per vancomycin dosage guidelines	Meropenem* IV 1g 8 hourly
If neutropenic sepsis AND suspected vascular access device infection	Treat as above and ADD Vancomycin IV as per vancomycin dosage guidelines, if not already given for other indication	Gram negative cover as for indications above

*There is a small risk of allergic cross-reaction in patients with penicillin anaphylaxis.