Louth: Antimicrobial Guidelines - Louth Hospitals: Antimicrobial Guidelines: Neutropenic Sepsis

Indication	
Neutropenic Sepsis: Initial Empiric Treatment	
First Line Antimicrobials	
Piperacillin/Tazobactam 4.5g QDS IV	
AND	
Contamicin 5mg/kg daily IV (avoid gentamicin if myeloma - substitute ciprofloxacin 400mg BD IV instead)	
N.B. Adjust dose if renal impairment, trough level monitoring required, click on link above for calculator and guideline.	
N.B. Risk of long-lasting and disabling adverse effects with quinolones, mainly involving muscles, tendons and bones and potential to prolong the QT interval. Consider that seizure threshold may be lowered.	the nervous system. Consider
+/-	
f indwelling central vascular access device, MRSA or other gram positive infection suspected: <mark>Vancomycia</mark> 25mg/kg load by15mg/kg BD IV	ing dose stat (max 3g), followed
N.B. Adjust dose if renal impairment, trough level monitoring required, click on link above for calculator and guideline.	
ADD Clarithromycin 500mg BD PO (or Clarithromycin 500mg BD IV only where oral route is not feasible - excellent oral b community-acquired pneumonia.	bioavailability) if evidence of
N.B. Consider potential for drug interactions, e.g. statins, prolongation of QT interval	
(No need to add clarithromycin if patient on ciprofloxacin).	
If patient deteriorates clinically, contact Clinical Microbiologist for advice.	
Penicillin Hypersensitivity	
Ciprofloxacin 400mg BD IV	
N.B. Risk of long-lasting and disabling adverse effects with quinolones, mainly involving muscles, tendons and bones and potential to prolong the QT interval. Consider that seizure threshold may be lowered.	the nervous system. Consider
AND	
/ancomycin 25mg/kg loading dose (max 3g), followed by 15mg/kg BD IV	
N.B. Adjust dose if renal impairment, trough level monitoring required, click on link above for calculator and guideline.	
AND	
Sentamicin 5mg/kg daily IV (avoid gentamicin if myeloma)	
N.B. Adjust dose if renal impairment, trough level monitoring required, click on link above for calculator and guideline.	
If patient deteriorates clinically, contact Clinical Microbiologist for advice.	
Comments Neutropenic sepsis is a medical emergency. Contact Clinical Microbiologist, Oncologist and/or Haematologist fo	r advice as required.
N.B. Patients with neutropenic sepsis require daily clinical review.	
N.B. Review need for gentamicin daily. Avoid durations in excess of 5 days.	
Microbiological Investigations:	
 N.B. Check previous microbiology results – this may influence empiric choice. Blood cultures – if vascular catheter in situ, take one set of blood cultures from each lumen and a set of blood cultures MSU/CSU Sputum sample If viral aetiology suspected, nose and throat viral swabs (in <u>red-top</u> tube containing viral transport medium) for respirate If influenza suspected, refer to OLOL IPCT Guidelines regarding need for isolation Culture all possible sources of infection, e.g. CVC lines, stool sample if diarrhoea, wound swab if applicable Consider expanding the differential diagnosis to include other pathogens, e.g. MDROs, viruses, PCP and fungi. Conta advice if required. 	ory virus multiplex PCR
ALWAYS REVIEW empiric therapy in conjunction with C&S after 48 hours.	
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