Adult Community Acquired Sepsis Prescribing Guidelines – First dose **High MRSA Non-Tropical**



For hospital acquired infection please refer to local guidelines or an Infectious Diseases Specialist (ID). For dosing adjustments in Chronic Kidney Disease / kidney failure, please refer to Therapeutic Guidelines (eTG) or local guidelines.

Discuss with ID if there are any concerns with antibiotic choice, OR if the patient:

- Is at risk of multidrug-resistant infection [Note 1], has suspected encephalitis or is pregnant.
- · Has contraindications to specific antibiotic therapy recommended in this guideline or is at extremes of weight.
- Is immunocompromised (N.B. if febrile neutropenia is suspected refer to local guidelines, where available).

			ence all antibiotics within ONE	,
	Source of infec		Empirical antibiotic regimen	Penicillin hypersensitivity (all)
30 1		ningococcus or ningitis	Before or with the first dose of antibiotic: Dexamethasone 10mg IV, 6 hourly PLUS Ceftriaxone 2g IV, 12 hourly	Before or with the first dose of antibiotic: Dexamethasone 10mg IV, 6 hourly PLUS Moxifloxacin [Note 4] 400mg IV, daily
			If at risk of <i>Listeria</i> [Note 3] ADD Benzylpenicillin 2.4g IV, 4 hourly If recent penicillin use or sinusitis / chronic otitis media ADD Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)	If at risk of <i>Listeria</i> [Note 3] Non-pregnant: ADD Trimethoprim-Sulfamethoxazole [Note 4] 5/25mg/kg (up to 480/2400mg) IV, 8 hourly Pregnant: FIRST trimester – seek ID or maternity specialist advice immediately SECOND or THIRD trimester – Trimethoprim-Sulfamethoxazole [Note 4] 5/25mg/kg (up to 480/2400mg) IV, ONCE, the seek ID or maternity specialist advice
	neu (refo	orile atropenia er to local delines where ilable)	Tobramycin [Note 7] [Note 1] 7mg/kg IBW / AdjBW IV, ONCE (max 700mg) PLUS Piperacillin-Tazobactam [Note 1] 4/0.5g IV, 6 hourly PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)	Meropenem 2g IV, 8 hourly PLUS Vancomycin [Note 5] 25–30mg/kg ABW I'lloading dose (max 3000mg)
1 our	Control of the Party of the Par	crotising ciitis	Arrange immediate surgical consultation regarding debridement Piperacillin-Tazobactam 4/0.5g IV, 6 hourly PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg) PLUS Clindamycin [Note 6] 600mg IV, 8 hourly If exposed to water	Arrange immediate surgical consultation regarding debridement Meropenem 2g IV, 8 hourly PLUS Vancomycin [Note 5] 25–30mg/kg ABW I loading dose (max 3000mg) PLUS Clindamycin [Note 6] 600mg IV, 8 hourly If exposed to water
	acq	mmunity Juired Eumonia	ADD Ciprofloxacin [Note 4] 400mg IV, 8 hourly Ceftriaxone 2g IV, daily PLUS Azithromycin 500mg IV, daily PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)	ADD Ciprofloxacin [Note 4] 400mg IV, 8 hourly Moxifloxacin [Note 4] 400mg IV, daily PLUS Vancomycin [Note 5] 25–30mg/kg ABW loading dose (max 3000mg)
		risk of tropical action [Note 2]	Meropenem 2g IV, 8 hourly PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)	Meropenem 2g IV, 8 hourly PLUS Vancomycin [Note 5] 25–30mg/kg ABW I loading dose (max 3000mg)
	sou SOI	other infection irces or URCE NOT PARENT	Tobramycin [Note 7] [Note 1] 7mg/kg IBW / AdjBW IV, ONCE (max 700mg) PLUS Ceftriaxone 2g IV, 12 hourly PLUS Flucloxacillin 2g IV, 4 hourly PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg) For suspected toxic shock	Tobramycin [Note 7] [Note 1] 7mg/kg IBW / AdjBW IV, ONCE (max 700mg) PLUS Ciprofloxacin [Note 4] 400mg IV, 8 hourly PLUS Vancomycin [Note 5] 25–30mg/kg ABW I' loading dose (max 3000mg) For suspected toxic shock ADD Clindamycin [Note 6] 600mg IV, 8 hourly

ADD Clindamycin [Note 6] 600mg IV, 8 hourly

Adult First Dose Sepsis and Septic Shock Antibiotic Administration Guidelines



Sepsis is a medical emergency. This guideline has been developed to facilitate rapid administration of antibiotics for sepsis and septic shock. For subsequent doses, refer to the Australian Injectable Drugs Handbook (AIDH)1.

- Administer medications in an order that ensures the highest number of antibiotics are given as quickly as clinically appropriate (i.e. give antibiotics with short administration times first and long infusions last).
- · Where possible use separate dedicated lines for resuscitation fluid and for medications. When injecting antibiotics directly into an IV injection port which has
- 1. Clamp the infusion fluid line and flush with 10mL sterile sodium chloride 0.9% solution.
- 2. Administer antibiotic over the required time.
- 3. Flush the line with 10mL sterile sodium chloride 0.9% solution and recommence resuscitation fluid.

Antibiotic	Presentation	Reconstitution fluid / volume (for mixing powdered medications) WFI = Water for injection	Final volume	Minimum administration time	Notes
Amikacin	Vial 500mg/2mL	No reconstitution required	100mL (0.9% NaCl)	Infuse: 15min (max dose = 3000mg)	Refer to NOTE 1
Amoxicillin or Ampicillin	Vial 1g	20mL WFI	20mL	Inject or infuse doses 2g: 10–15min	Rapid IV administration may cause seizure
Azithromycin	Vial 500mg	4.8mL WFI Then add to infusion bag	250mL or 500mL (0.9% NaCl)	Infuse: 60min	Local infusion site reactions may occur
Benzylpenicillin	Vial 600mg	10mL WFI	10mL	Inject 1.2g or less: 5–10min	Rapid IV administration may cause seizure
	Vial 1.2g	20mL WFI	20mL (1.2g dose) Dilute doses over 1.2g in 100mL 0.9%NaCl	Infuse doses over 1.2g: 30min	
Cefazolin	Vial 1g or 2g	20mL WFI	20mL	Inject 2g: 5min	
Cefepime	Vial 1g or 2g	10mL 0.9% NaCl	10mL	Inject 2g: 3–5min	
Ceftriaxone	Vial 1g	10mL WFI	10mL (1g dose)	Inject 1g: 2-4min	Incompatibile with calcium containing solutions (e.g. Hartmann's), flush thorough
			20mL (2g dose)	Inject 2g: 5min	, , , , , , , , , , , , , , , , , , , ,
Ciprofloxacin	Infusion bag or infusion vial 200mg/100mL	No reconstitution required	N/A	Infuse: 60min	Local infusion reactions may occur if given over less than 60min
Clindamycin	Ampoule 300mg/2mL, 600mg/4mL	No reconstitution required	50mL (0.9% NaCl) (600mg)	Infuse 600mg: 20min	Maximum rate is 30mg/min
Dexamethasone	Vial 4mg/mL or 8mg/2mL	No reconstitution required	10mL (0.9% NaCl)	Inject: 3–5min	For meningitis give prior to antibiotics
Flucloxacillin	Vial 1g	20mL WFI	100mL (0.9% NaCl): 2g dose	Infuse 2g: 30min	Infusion is preferred as phlebitis is common Rapid IV administration may cause seizure
Gentamicin	Ampoule 80mg/2mL	No reconstitution required	20mL (0.9% NaCl)	Inject: 3–5min (max dose = 700mg)	Refer to NOTE 1
Lincomycin	Vial 600mg/2mL	No reconstitution required	100mL (0.9% NaCl) (600mg)	Infuse 600mg: 40min	Severe cardiopulmonary reactions have occurred when given faster than 1g/hour o in concentrations of more than 1g/100mL
Meropenem	Vial 1g	20mL WFI	20mL	Inject 1g or 2g: 5min	
Metronidazole	Infusion bag 500mg/100mL	No reconstitution required	N/A	Infuse: 20min	
Moxifloxacin	Infusion bag 400mg/250mL	No reconstitution required	N/A	Infuse: 60min	
Piperacillin - Tazobactam	Vial 4/0.5g	20mL WFI	20mL (injection) 50mL 0.9% NaCl (infusion)	Inject: 5min OR Infuse: 20min	
Tobramycin	Ampoule 80mg/2mL	No reconstitution required	20mL (0.9% NaCl)	Inject: 3–5min (max dose = 700mg)	Refer to NOTE 1
Trimethoprim - Sulfamethoxazole	Vial 80/400mg in 5mL	No reconstitution required	Dilute each amp in 125mL of 0.9% NaCl (e.g. 2 amps in 250mL)	Infuse: 60min	For other doses see AIDH
Vancomycin	Vial 500mg	10mL WFI	1g in 250mL	Sepsis infusion times	Infusion reactions common (red man
	Vial 1g	20mL WFI	Concentration: 2.5–5mg/mL (fluid restriction: max 10mg/mL)	1g or less: 60min 2g dose: 120min 3g dose: 180min (max dose = 3000mg)	syndrome); decrease infusion rate and monitor. May cause injection site pain and thrombophlebitis; dilute further and rotate infusion site

NOTE 1: Aminoglycoside antibiotics are inactivated by penicillins and cephalosporins. Do not mix in the same injection or infusion solution. Administer at separate sites if possible. Where it is not practical to administer separately, flush the line well before and after giving each drug. DO NOT delay administration of these antibiotics.

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- 1. The Society of Hospital Pharmacists of Australia (SHPA). Australian Injectable Drugs Handbook. 9th ed. SHPA; 2024. https://aidh.hcn.com.au. Accessed August 5th 2024
- 2. Medication Services Queensland. Aminoglycoside Dosing in Adults. Department of Health; 2018. Aminoglycoside Dosing in Adults May 2018 (health.qld.gov.au) Accessed August 5th 2024
- 3. Antibiotic version 16, 2023. In: Therapeutic Guidelines. Melbourne: Therapeutic Guidelines Limited; accessed August 2024. https://www.tg.org.au

(Affix identification label here) Queensland Government URN: Family name: **Adult Sepsis Pathway** Given name(s) High MRSA Non-Tropical Address: Sex: M F I Date of birth: Facility: Clinical pathways never replace clinical judgement Care outlined in this pathway must be altered if it is not clinically appropriate for the individual patient

o la	cks sick u suspect they may have sepsis s a suspected infection tient / family / carers concerned about patient condition suspect neutropenic sepsis, refer to local guidelines if available, otherwise continue screening on this pathway Current or recent fever with or without chills or rigors Hypothermia <35.5°C Signs of clinical deterioration (e.g. change in behaviour or ne onset confusion or total Q-ADDS / Q-MEWT score of ≥4) suspect neutropenic sepsis, refer to local guidelines if available, otherwise continue screening on this pathway
	Screening initiated: DD / MM / YY
	Are ANY of the following risk factors present? (tick all that apply)
	Absence of risk factors does not exclude sepsis as a cause of deterioration
	Re-presentation within 48 hours or requiring repeated reviews Alcohol or drug use disorder
	Malnourished or frail Recent trauma / surgery / invasive procedure
	Impaired immunity (e.g. diabetes steroids

Aboriginal and / or Torres Strait Islander

Does the patient have ANY moderate risk criteria?

Implantable device / prosthesis

CNS / meningitis

Source is unclear

Other (specify):

∟NO-

Surgical site / wound

Patient may have SEPSIS Obtain immediate senior medical

if rural or remote

• Ensure lactate taken

review and/or consider calling RSQ

Sepsis is a MEDICAL EMERGENCY. If you suspect post-operative bleeding, pulmonary embolism (PE), acute myocardial infarction (AMI), stroke, or peri-partum bleeding or amniotic fluid embolus for maternity patients, immediately escalate to senior medical staff.

	▼ YES		▼ YES	NO
	Recent chemotherapy	→		
	Evidence of new or altered mental state	NO	-	
	urinary output (UO) <0.5mL/kg/hr (if known)		Acute deterioration in functional ability	
Has not passed urine in past 18 hours OR			Family members / carers concerned about me	ental stat
	Heart rate ≥130 beats per min		patients)	
	New oxygen requirement to keep oxygen saturation ≥92%		Temperature <35.5°C or ≥38.5°C (≥38.0°C fo	r matern
	Respiratory rate ≥25 breaths per min		Has not passed urine in past 12–18 hours	
	Non-blanching rash / Mottled / Ashen / Cyanotic		☐ Heart rate 90–129 beats per min OR new arry	ythmia
	☐ Lactate ≥2mmol/L		Respiratory rate 21–24 breaths per min	
	Systolic BP <90mmHg (or drop >40 from normal)		Systolic BP 90-99mmHg	
	(tick all that apply)		(tick all that apply)	

Patient has SEPSIS or SEPTIC SHOCK until proven otherwise Obtain immediate senior medical review

chemotherapy, neutropenia, asplenia)

Genital tract / reproductive system

Breach of skin integrity / soft tissue / joint

Does the patient have ANY high risk criteria?

Respiratory trac

Abdomen / GIT

Urinary tract

ndwelling medical device (e.g. PIVC, catheter, drain)

Commence resuscitation AND consider calling Retrieval

For use in maternity patients of any gestation up to six weeks postpartum.

Screen ALL adult patients who meet ANY of the following criteria (tick all that apply)

Is there ANY potential source of infection? (tick all possible sources that apply)

Services Queensland (RSQ) 1300 799 127 if rural or remote Increase observation frequency • Ensure lactate taken

Senior medical review attended: PRINT name of senior medical reviewer:

Does the senior medical reviewer think sepsis or septic shock is likely?

Sepsis / septic shock likely Commence resuscitation and treatment for sepsis NOW (see page 2) Commence resuscitation and treatment is Consider Calling RSQ (1300 799 127) or RFDS (if normal pathway)

· Consider hypovolaemia, AMI stroke and PE In the event of deterioration reassess sepsis risk using a new Sepsis / septic shock unlikely copy of this form · If to be discharged home, give patient sepsis discharge

instructions

deterioration

Low risk for SEPSIS

· Look for other common causes of

SEPSIS

PATHWAY

Signature Log Every person documenting in this clinical pathway must supply a sample of their initials and signature below Signature Print name Print name

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Queensland Government			(Affix identification label here)						
			URN:						
			Family name:						
	Adult	Sepsis Pathway	Given name(s):						
	High	MRSA Non-Tropical	Address:						
	· ·	·		ex: M	□F				
	N. C.								
	Notify nursing team leader and senior medical staff the patient has potential sepsis or septic shock (tick when notified). Confirm treatment aligns with Acute Resuscitation Plan (ARP) if relevant.								
	(1) Comme	ence Actions 1–4 within:							
	30 minutes	From recognition of neutropenic or n	neningococcal sepsis						
	1 hour	From recognition of septic shock							
	1 hour		where there is high likelihood that organ dy						
	3 hours	concern for infection persists after ra	disfunction where there is less certainty this apid clinical assessment	is due to in	rection, i	Jul			
	Document varia	nce in medical record if key tasks not co	•						
		or remeasure) lactate		Lactat	te collect	ed			
	(Arterial / Venous / Point of care)				Time:	Initials:			
	2. Take 2 sets of blood cultures				2 sets blood cultures				
	 Collect prior to 	_	collected						
		a central line collect an additional (third) se JEC and glucose (or Chem8 iStat), LFT ar							
쁜	 For septic sho 	ock add coagulation studies	·	Date:	Time:	Initials:			
¥	Collect urine, sputum and other relevant cultures but do not delay antibiotics								
SC	Commence or review antibiotics Identify likely source of infection (including relevant imaging findings)				Antibiotics commenced				
RESUSCITATE	 Prescribe antibiotics according to guidelines. Modify for allergies or prior microbiological sensitivities Notify nursing staff of urgent need to administer antibiotics and ensure completed Consider referral to consulting microbiologist or infectious diseases physician (particularly if: septic shock, 								
2						1			
	recent overse patient)	Date:	Time:	Initials:					
	4. Commence		ds comm	enced					
	 Consider volu and haemody 	☐ Not in	■ Not indicated						
	• If bolus indicated, rapidly infuse 250–500mL IV or intraosseous Hartmann's or sodium chloride 0.9%								
	Consider albumin 5% solution for patients with septic shock Assess response to fluid and consider repeating bolus if clinically indicated – do NOT exceed 30mL/kg								
	without senior medical input • If IV access not possible, consider intraosseous route					Date: Time: Initials:			
			Vasopressors /						
	5. Consider vasopressors / inotropes for hypotension during or after fluid resuscitation (e.g. Noradrenaline: usual commencing dose 5mcg/min) or consider referral to ICU or					idered			
	higher level of care				☐ Not indicated				
	6. Facilitate source control ATTENTION: Source control is URGENT – Ongoing sepsis treatment is unlikely to be effective without timely and comprehensive source control								
	If source conti team	rol requires operative intervention, immedia	ately notify appropriate surgical or interventional						
		oving or changing existing indwelling medi	cal devices (e.g. IV lines or urinary catheters)						
		and monitor response to resuscitati							
	 Oxygen saturation ≥92% and titrate to range of 92–96% (88–92% if COPD) Systolic BP >100mmHg 								
	Urine output >0.5 to 1.0mL/kg/hr – consider IDC with hourly monitoring								
	If haemodynamic status is not improving seek urgent (further) senior medical advice and escalate to higher level of care								
	8. Document and communicate ongoing management: • Document appropriate criteria to ensure escalation if signs of deterioration					eted ed			
ΕW	Notify treating team of change in clinical condition Document clear management plan								

Review antibiotics as soon as possible

to accepting clinician

Transferring staff name:

• Refer to infectious diseases, microbiologist or AMS team for review, particularly for septic shock

Communicate the patient's risk of deterioration during handover

An emergency call can be initiated at any time if clinically concerned

Facilitate transfer and provide clinical handover if patient requires admission to higher level of care

Date and time completed:

Accepting staff name:

(24hr)

WRITE

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RITE IN THIS

Adult Community Acquired Sepsis Prescribing Guidelines – First dose
High MRSA Non-Tropical



Sepsis WITHOUT Shock Penicillin allergy - severe Source of infection Empirical antibiotic regimen SINGLE SOURCE Before or with the first dose of **Before** or with the first dose of Meningitis Before or with the first dose of antibiotic: antibiotic ntibiotic Dexamethasone 10mg IV, 6 hourly Dexamethasone 10mg IV, 6 hourly Dexamethasone 10mg IV, 6 hourly PLUS Ceftriaxone 2g IV, 12 hourly PLUS Ceftriaxone 2g IV, 12 hourly PLUS Moxifloxacin [Note 4] 400mg IV, daily If at risk of Listeria [Note 3] If at risk of *Listeria* [Note 3] ADD Benzylpenicillin 2.4g IV, If at risk of Listeria [Note 3] Non-pregnant: 4 hourly ADD Trimethoprim-Non-pregnant: Sulfamethoxazole [Note 4] 5/25mg/kg ADD Trimethoprim-If recent penicillin use or Sulfamethoxazole [Note 4] 5/25mg/kg (up to 480/2400mg) IV, 8 hourly sinusitis / chronic otitis media (up to 480/2400mg) IV, 8 hourly ADD Vancomycin [Note 5] FIRST trimester – seek ID Pregnant: 25-30mg/kg ABW IV loading dose FIRST trimester - seek ID or maternity specialist advice (max 3000mg) immediately or maternity specialist advice SECOND or THIRD trimester -Trimethoprim-Sulfamethoxazole SECOND or THIRD trimester -Trimethoprim-Sulfamethoxazole Note 41 5/25mg/kg (up to 480/2400mg) IV, ONCE, then seek (up to ID or maternity specialist advice 480/2400mg) IV, ONCE, then seek ID or maternity specialist advice If recent penicillin use or sinusitis / chronic otitis media ADD Vancomycin (Note 5) 25-30mg/kg ABW IV loading dose Piperacillin-Tazobactam [Note 1] Cefepime [Note 1] 2g IV, 8 hourly Tobramycin [Note 7] [Note 1] 4/0.5g IV, 6 hourly 4-5mg/kg IBW / AdjBW IV, ONCE (refer to loca If at risk of MRSA [Note 8] (max 500mg) delines where If at risk of MRSA [Note 8] ADD Vancomycin [Note 5] PLUS Vancomycin [Note 5] 25-30mg/kg ABW IV loading dose ADD Vancomycin IN 25-30mg/kg ABW IV loading dose 25-30mg/kg ABW IV loading do (max 3000mg) (max 3000mg) Cellulitis Flucloxacillin 2g IV, 6 hourly Cefazolin 2g IV, 8 hourly Skin Vancomycin [Note 5] 25-30mg/kg ABW IV loading dose (max and If at risk of MRSA (Note 8) If at risk of MRSA (Note 8) 3000mg) ADD Vancomycin [Note 5] ADD Vancomycin [Note 5] tissue 25–30mg/kg IV ABW loading dose 25–30mg/kg ABW IV loading dose (max 3000mg) (max 3000mg) Water-related | Give cellulitis regimen, PLUS Ciprofloxacin [Note 4] 400mg IV, 8 hourly, PLUS seek ID advice **Diabetic foot** | Piperacillin-Tazobactam 4/0.5g IV, Cefepime 2g IV, 8 hourly Ciprofloxacin [Note 4] 400mg I\ infections 6 hourly PLUS Metronidazole 500mg IV, 8 hourly PLUS Clindamycin [Note 6] If at risk of MRSA [Note 8] ADD Vancomycin [Note 5] If at risk of MRSA [Note 8] 600mg IV, 8 hourly If at risk of MRSA [Note 8] 25–30mg/kg ABW IV loading dose ADD Vancomycin [Note 5] (max 3000mg) 25–30mg/kg ABW IV loading dose ADD Vancomycin [Note 5] 25-30mg/kg ABW IV loading dose (max 3000mg (max 3000mg) Necrotising Treat necrotising fasciitis with the regimen specified in the 'Sepsis WITH Shock' table fasciitis Benzylpenicillin 1,2g IV, 6 hourly Ceftriaxone 2g IV, daily Moxifloxacin [Note 4] 400mg IV, daily PLUS Azithromycin 500mg IV, daily PLUS Azithromycin 500mg IV, daily pneumonia If IRVS§ required or SMART-COP ≥5. replace Benzylpenicillin with Ceftriaxone 2g IV, daily **Urinary** Tobramycin [Note 7] [Note 1] Tobramycin [Note 7] [Note 1] Tobramycin [Note 7] [Note 1] 4-5mg/kg IBW / AdjBW IV, ONCE 4-5mg/kg IBW / AdjBW IV, ONCE 4-5mg/kg IBW / AdjBW IV, ONCE (max 500mg) (max 500mg) (max 500mg) PLUS Ampicillin 2g IV, 6 hourly PLUS seek ID advice PLUS seek ID advice Ceftriaxone [Note 1] 2g IV, daily Tobramycin (Note 7) (Note 1) Tobramycin [Note 7] [Note 1] Intra-abdomina 4-5mg/kg IBW / AdjBW IV, ONCE 4-5mg/kg IBW / AdjBW IV, ONCE PLUS Metronidazole 500mg IV, (max 500mg) 12 hourly (max 500mg) PLUS Ampicillin 2g IV, 6 hourly PLUS Clindamycin [Note 6] 600mg PLUS Metronidazole 500mg IV. IV. 8 hourly 12 hourly Intra-amniotic Tobramycin [Note 7] [Note 1] Tobramycin [Note 7] [Note 1] Tobramycin [Note 7] [Note 1] 4-5mg/kg IBW / AdjBW IV, ONCE 4-5mg/kg IBW / AdjBW IV, ONCE 4-5mg/kg IBW / AdjBW IV, ONCE infection (max 500mg) (max 500mg) (max 500mg) (chorioamnionitis) or PLUS Ampicillin 2g IV, 6 hourly PLUS Metronidazole 500mg IV, PLUS Cefazolin 2g IV, 8 hourly endometritis PLUS Metronidazole 500mg IV, PLUS Metronidazole 500mg IV, 12 hourly PLUS Vancomycin [Note 5] 12 hourly 12 hourly 25-30mg/kg ABW IV loading dose (max 3000mg) Discuss early removal of device with treating team Tobramycin [Note 7] [Note 1] 4-5mg/kg IBW / AdjBW IV, ONCE (max 500mq) PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)

Adult Community Acquired Sepsis Prescribing Guidelines – First dose High MRSA Non-Tropical



Sepsis WITHOUT Shock (continued)							
Source of infection	Empirical antibiotic regimen Penicillin allergy – non-severe hypersensitivity		Penicillin allergy – severe hypersensitivity (e.g. anaphylaxis				
MULTIPLE POSSIBLE SOURCES							
Community acquired pneumonia / urinary	Tobramycin [Note 7] [Note 1] 4–5mg/kg IBW / AdjBW IV, ONCE (max 500mg) PLUS Ampicillin 2g IV, 6 hourly PLUS Azithromycin 500mg IV, daily	Ceftriaxone [Note 1] 2g IV, daily PLUS Azithromycin 500mg IV, daily	Meropenem 1g IV, 8 hourly PLUS Azithromycin 500mg IV, daily				
Community acquired pneumonia / cellulitis	Ceftriaxone 2g IV, daily PLUS Azithromycin 500mg IV, daily	Ceftriaxone 2g IV, daily PLUS Azithromycin 500mg IV, daily	Meropenem 1g IV, 8 hourly PLUS Azithromycin 500mg IV, daily				
	If at risk of MRSA [Note 8] ADD Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)	If at risk of MRSA [Note 8] ADD Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)	If at risk of MRSA [Note 8] ADD Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)				
Urinary / abdominal	Tobramycin [Note 7] [Note 1] 4-5mg/kg IBW / AdjBW IV, ONCE (max 500mg) PLUS Ampicillin 2g IV, 6 hourly PLUS Metronidazole 500mg IV, 12 hourly	Ceftriaxone [Note 1] 2g IV, daily PLUS Metronidazole 500mg IV, 12 hourly	Tobramycin [Note 7] [Note 1] 4–5mg/kg IBW / AdjBW IV, ONCE (max 500mg) PLUS Clindamycin [Note 6] 600mg IV, 8 hourly				
SOURCE NOT APPARENT							
All other infection sources or SOURCE NOT APPARENT	Tobramycin [Note 7] [Note 1] 4-5mg/kg IBW / AdjBW IV, ONCE (max 500mg) PLUS Flucloxacillin 2g IV, 6 hourly If at risk of MRSA [Note 8] ADD Vancomycin [Note 5] 25-30mg/kg ABW IV loading dose (max 3000mg)	Tobramycin [Note 7] [Note 1] 4-5mg/kg IBW / AdjBW IV, ONCE (max 500mg) PLUS Cefazolin 2g IV, 8 hourly If at risk of MRSA [Note 8] ADD Vancomycin [Note 5] 25-30mg/kg ABW IV loading dose (max 3000mg)	Tobramycin [Note 7] [Note 1] 4–5mg/kg IBW / AdjBW IV, ONCE (max 500mg) PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg) If concerned for invasive meningococcal disease [Note 9]				
	If concerned for invasive meningococcal disease [Note 9] ADD Ceftriaxone 2g IV, 12 hourly	If concerned for invasive meningococcal disease [Note 9] ADD Ceftriaxone 2g IV, 12 hourly	ADD Ciprofloxacin [Note 4] 400mg IV 8 hourly				

§ IRVS Intensive respiratory or vasopressor support.

1 Multidrug-resistant infection risks: recent admission (within 12 months) to an overseas hospital with a high prevalence of multidrug-resistant organisms or previous colonisation or infection with a resistant Multidrug-Resistant Gram-Negative organism (MRGN). If MRGN suspected:

- Replace tobramycin or gentamicin with amikacin [Note 7] 16mg/kg (non-shock) or 30mg/kg (shock) IBW / AdjBW IV (max 3000mg) or add amikacin if other aminoglycoside not already given.
- If contraindications to aminoglycosides, **replace** beta-lactam and aminoglycoside drug with meropenem IV 1g (non-shock) or 2g (shock) 8 hourly
- ote 2 Tropical infection (Burkholderia pseudomallei or Acinetobacter baumannii) risks: travel to tropical countries or north of Mackay AND, at least one of: diabetes, hazardous alcohol consumption, chronic kidney or lung disease, or on immunosuppressants.
- ote 3 Listeria risks: Immunosuppression, >50yrs, history of hazardous alcohol consumption, pregnancy or debilitation.
- **Note 4** CAUTION: Seek ID or maternity specialist opinion for ongoing therapy in pregnant patients. For trimethoprim-sulfamethoxazole use in the first trimester of pregnancy, seek ID or maternity specialist advice PRIOR to prescribing.
- **Note 5 Vancomycin:** Dose according to Actual Body Weight (ABW). See *eTG* for subsequent dosing or dosing in obesity. Maximum loading dose: 3000mg.
- Note 6 Alternative to clindamycin: Lincomycin the recommended dose of IV lincomycin is 600mg IV, 8 hourly.
- ote 7 Aminoglycosides: Dose according to Ideal Body Weight (IBW) or Actual Body Weight (ABW), whichever is less. Where ABW is >20% of IBW, use Adjusted Body Weight (AdjBW). For adjusted dosing calculations or patients with chronic kidney disease, please see eTG or QH Aminoglycoside Dosing in Adults Guidelines, April 2018. Repeat dosing with aminoglycosides, if required, should be at least 24 hours after the first dose, depending on renal function. Gentamicin can be used instead of tobramycin, at the same dose. Gentamicin is no longer recommended for the treatment of Pseudomonas aeruginosa.
- Note 8 Methicillin-resistant Staphylococcus aureus (MRSA) infection risks: Chronic underlying disease (e.g. kidney disease, diabetes), immunosuppression, chronic wounds or dermatitis, injection drug use, living in close quarters or communities with high MRSA prevalence or known colonisation with MRSA.

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Note 9 Patients with asplenia or hyposplenia are at high risk of invasive meningococcal disease.

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