Adult Community Acquired Sepsis Prescribing Guidelines – First dose **High MRSA Tropical (north of Mackay)**



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).

Sepsis WITH Shock: Commence all antibiotics within ONE hour, unless otherwise stated

o o p o i o					
	Source of infection			Empirical antibiotic regimen	Penicillin hypersensitivity (all)
meningitis		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 at risk of <i>Listeria</i> [Note 3] Non-pregnant:
				If recent penicillin use or sinusitis / chronic otitis media	ADD Trimethoprim-Sulfamethoxazole [Note 4] 5/25mg/kg (up to 480/2400mg) IV, 8 hourly Pregnant:
				ADD Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)	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, then seek ID or maternity specialist advice
		refer to local g where available	juidelines	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 IV loading dose (max 3000mg)
		Necrotising fa	sciitis	Arrange immediate surgical consultation regarding debridement	Arrange immediate surgical consultation regarding debridement
hour				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 ADD Ciprofloxacin [Note 4] 400mg IV, 8 hourly	Meropenem 2g IV, 8 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 ADD Ciprofloxacin [Note 4] 400mg IV, 8 hourly
	414	Community		Meropenem 2g IV, 8 hourly	Meropenem 2g IV, 8 hourly
		acquired	0,000	PLUS Azithromycin 500mg IV, daily	PLUS Azithromycin 500mg IV, daily
	THE STATE OF THE S	pneumonia	Wet season	PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)	PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)
			July -	Ceftriaxone 2g IV, daily	Moxifloxacin [Note 4] 400mg IV, daily
				PLUS Azithromycin 500mg IV, daily PLUS Vancomycin [Note 5] 25–30mg/kg ABW	PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)
			Dry season	IV loading dose (max 3000mg)	(
		All other		Meropenem 2g IV, 8 hourly	Meropenem 2g IV, 8 hourly
		infection sources or	Wet	PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)	PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)
		SOURCE NOT	season	For suspected toxic shock:	For suspected toxic shock:
		APPARENT		ADD Clindamycin [Note 6] 600mg IV, 8 hourly	ADD Clindamycin [Note 6] 600mg IV, 8 hourly
				Tobramycin [Note 7] [Note 1] 7mg/kg IBW / AdjBW IV, ONCE (max 700mg)	Tobramycin [Note 7] [Note 1] 7mg/kg IBW / AdjBW IV, ONCE (max 700mg)
			Dry	PLUS Ceftriaxone 2g IV, 12 hourly	PLUS Ciprofloxacin [Note 4] 400mg IV, 8 hourly
			season	PLUS Flucloxacillin 2g IV, 4 hourly PLUS Vancomycin [Note 5] 25–30mg/kg ABW	PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)
				IV loading dose (max 3000mg)	For suspected toxic shock
				For suspected toxic shock ADD Clindamycin [Note 6] 600mg IV, 8 hourly	ADD Clindamycin [Note 6] 600mg IV, 8 hourly

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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 resuscitation fluid running:
- 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.

· Consider using a sy	ringe driver if adm	ninistration time for injection is	s greater than 5 minutes.		
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 seizur
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:	Rapid IV administration may cause seizur
	Vial 1.2g	20mL WFI	20mL (1.2g dose) Dilute doses over 1.2g in 100mL 0.9%NaCl	5–10min 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 gives 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 commo Rapid IV administration may cause seizur
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 on 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)	Inject: 5min OR	
Tazobactam			50mL 0.9% NaCl (infusion)	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.

- 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

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© State of Queensland (Queensland Health) 205 Licensed under: http://dreativecommons.org Contact: sepsis@health.dds.gov.a		High MRSA Tropical (north of Mackay)	Addres	s:				
tte of Q License	Fac	cility:	Date of	f birth:		Sex:	M[_FI
© Ste	Clini	cal pathways never replace clinical judgement.						
	Care For u	outlined in this pathway must be altered if it is not clinicall use in maternity patients of any gestation up to six weeks p	y approp ostpartui	oriate for tl m.	he individual patient.			
		sis is a MEDICAL EMERGENCY. If you suspect post-open), stroke, or peri-partum bleeding or amniotic fluid embo						
		een ALL adult patients who meet ANY of the follow				y escalate to	J Sellioi Ille	cuicai staii.
	□ Lo	books sick but suspect they may have sepsis as a suspected infection atient / family / carers concerned about patient condition but suspect neutropenic sepsis, refer to local guidelines if a	_ [[Current Hypoth Signs o onset c	or recent fever with one control of the control of	(e.g. change DS / Q-MEV	in behavior	
		Screening initiated: DD / MM / YY	(24hr)					
DO NOT WRITE IN THIS BINDING MARGIN	SCREEN and RECOGNISE	Are ANY of the following risk factors present? (Absence of risk factors does not exclude sepsis as a Re-presentation within 48 hours or requiring repeated Malnourished or frail Impaired immunity (e.g. diabetes, steroids, chemotherapy, neutropenia, asplenia) Indwelling medical device (e.g. PIVC, catheter, drain) Is there ANY potential source of infection? (tick Genital tract / reproductive system Respiratory tract Urinary tract Abdomen / GIT Breach of skin integrity / soft tissue / joint Does the patient have ANY high risk criteria? (tick all that apply) Systolic BP <90mmHg (or drop >40 from normal) Lactate ≥2mmol/L Non-blanching rash / Mottled / Ashen / Cyanotic Respiratory rate ≥25 breaths per min New oxygen requirement to keep oxygen saturation ≥92 Heart rate ≥130 beats per min Has not passed urine in past 18 hours OR urinary output (UO) <0.5mL/kg/hr (if known) Evidence of new or altered mental state Recent chemotherapy	AN all possion	ID / OR ble source	Alcohol or drug use di Recent trauma / surge Postpartum / miscarri Aboriginal and / or Tor	ery / invasive age res Strait Isla prosthesis NY modera g reaths per m per min OR i past 12–18 h ≥38.5°C (≥38	ate risk crinew arrythmours 3.0°C for materials	iteria?
0		♦ YES		D (1)	▼ YES	210	NO	
v2.00 - 12/2024 WINC Code: 1NY44190	SCALATE	Patient has SEPSIS or SEPTIC SHOCK until proven otherwise Obtain immediate senior medical review Commence resuscitation AND consider calling Retrieva Services Queensland (RSQ) 1300 799 127 if rural or relative to the services observation frequency		Obtain review of rules. Output Description:	ent may have SEPS ain immediate senior r ew and/or consider ca ral or remote ure lactate taken	medical		
v2.00 WINC)E-E	• Ensure lactate taken			↓		for SEPS	
	ō	Senior medical review attended: DD / MM / YY	НН	: MM (24I	nr)	deteriora	ition	non causes of
		PRINT name of senior medical reviewer:	PR	INT NA	ИE	 Consider stroke ar 	r hypovolae nd PE	mia, AMI,
	ESCALATE	Does the senior medical reviewer think sepsis of Sepsis / septic shock likely			is likely?		ent of deter s sepsis risk	ioration using a new
		▼ YES				copy of t		
SW128		Commence resuscitation and treatment Consider calling RSQ (1300 799 127) or F					ent sepsis d	
S S		nature Log Every person documenting in this clinical p	Ò			nitials and sig	ınature belo	w
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Queensland			(Affix identification label here)					
Government			URN:					
			Family name:					
	Adult	Sepsis Pathway	Given name(s):					
			, ,					
	rigii wro	A Tropical (north of Mackay)	Address:					
			Date of birth: Se	x:				
			al staff the patient has potential sepsisute Resuscitation Plan (ARP) if relevant.	or septic shock				
	1 Commo	ence Actions 1–4 within:						
	30 minutes	From recognition of neutropenic or n	neningococcal sepsis					
	1 hour	From recognition of septic shock						
	1 hour	From triage or recognition of sepsis	where there is high likelihood that organ dys	function is due to infection				
	3 hours	From triage or recognition of organ concern for infection persists after ra	disfunction where there is less certainty this is					
	Document varia	ance in medical record if key tasks not con	•					
	1 Measure (d	or remeasure) lactate		Lactate collected				
	(Arterial / Venou	us / Point of care)		Date: Time: Initials:				
	2 Take 2 sets	s of blood cultures		DD/MM/YY HH:MM				
	Collect prior toIf patient has	o antibiotics unless this would delay treatma a central line collect an additional (third) se	et of blood cultures via the line	2 sets blood cultures collected				
ATE	 For septic sho 	UEC and glucose (or Chem8 iStat), LFT ar ock add coagulation studies sputum and other relevant cultures but do	·	Date: Time: Initials:				
RESUSCITATE	Notify nursingConsider reference	ging findings) allergies or prior microbiological sensitivities cs and ensure completed is diseases physician (particularly if: septic shock, ganisms, IV drug use, morbid obesity or dialysis	Antibiotics commenced Date: Time: Initials:					
	4. Commence Consider volue and haemody If bolus indica Consider albu Assess responsitheut senior If IV access ne	Date: Time: Initials:						
		drenaline: usual commencing dose	ension during or after fluid resuscitation 5mcg/min) or consider referral to ICU or	□ Vasopressors / inotropes considered □ Not indicated				
	ATTENTION: S without timely • If source conti team	and comprehensive source control rol requires operative intervention, immedia	spsis treatment is unlikely to be effective ately notify appropriate surgical or interventional ical devices (e.g. IV lines or urinary catheters)	Source control facilitated Not indicated				
	Oxygen saturaSystolic BP >Urine output >	0.5 to 1.0mL/kg/hr – consider IDC with ho	(88–92% if COPD)	o higher level of care				
EVIEW	Document Document apple Notify treating Document cle	and communicate ongoing manage propriate criteria to ensure escalation if sign team of change in clinical condition ar management plan otics as soon as possible	ement:	Referral completed and documented				

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

to accepting clinician

Transferring staff name:

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

Date and time completed:

Accepting staff name:

/ (24hr)

Adult Community Acquired Sepsis Prescribing Guidelines – First dose

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High ivi	igh MRSA Tropical (north of Mackay)							
Sepsi	Sepsis WITHOUT Shock							
		infection	Empirical antibiotic regimen	Penicillin allergy – non-severe hypersensitivity	Penicillin allergy – severe hypersensitivity (e.g. anaphylaxis)			
SINGLE SOURCE				non-severe hypersensitivity	hypersensitivity (e.g. anaphylaxis)			
	Mening		Before or with the first dose of antibiotic: Dexamethasone 10mg IV, 6 hourly PLUS Ceftriaxone 2g IV, 12 hourly 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)	Before or with the first dose of antibiotic: Dexamethasone 10mg IV, 6 hourly PLUS Ceftriaxone 2g IV, 12 hourly 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, 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 (max 3000mg)	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] 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, then seek ID or maternity specialist advice			
	(refer to	es where	Piperacillin-Tazobactam [Note 1] 4/0.5g IV, 6 hourly If at risk of MRSA [Note 8] ADD Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg) Flucloxacillin 2g IV, 6 hourly If at risk of MRSA [Note 8] ADD Vancomycin [Note 5]	Cefepime [Note 1] 2g IV, 8 hourly If at risk of MRSA [Note 8] ADD Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg) Cefazolin 2g IV, 8 hourly If at risk of MRSA [Note 8] ADD Vancomycin [Note 5]	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) Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)			
	tissue		25–30mg/kg IV ABW loading dose (max 3000mg)	25–30mg/kg ABW IV loading dose (max 3000mg)				
		Water-related	Give cellulitis regimen, PLUS Ciprofle	oxacin [Note 4] 400mg IV, 8 hourly, PLU	S seek ID advice			
		Diabetic foot infections	Piperacillin-Tazobactam 4/0.5g IV, 6 hourly If at risk of MRSA [Note 8] ADD Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)	Cefepime 2g IV, 8 hourly PLUS Metronidazole 500mg IV, 12 hourly If at risk of MRSA [Note 8] ADD Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)	Ciprofloxacin [Note 4] 400mg IV, 8 hourly PLUS Clindamycin [Note 6] 600mg IV, 8 hourly If at risk of MRSA [Note 8] ADD Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)			
Necrotising		Necrotising fasciitis	Treat necrotising fasciitis with the regimen specified in the 'Sepsis WITH Shock' table					
	pneumo If at risk	inity acquired	Benzylpenicillin 1.2g IV, 6 hourly PLUS Azithromycin 500mg IV, daily If IRVS§ required or SMART-COP ≥5, replace Benzylpenicillin with Ceftriaxone 2g IV, daily	Ceftriaxone 2g IV, daily PLUS Azithromycin 500mg IV, daily	Moxifloxacin [Note 4] 400mg IV, daily			
	Urinary		Tobramycin [Note 7] [Note 1] 4–5mg/kg IBW / AdjBW IV, ONCE (max 500mg) PLUS Ampicillin 2g IV, 6 hourly	Tobramycin [Note 7] [Note 1] 4–5mg/kg IBW / AdjBW IV, ONCE (max 500mg) PLUS seek ID advice	Tobramycin [Note 7] [Note 1] 4–5mg/kg IBW / AdjBW IV, ONCE (max 500mg) PLUS seek ID advice			
	Intra-ab	dominal	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			
			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	Tobramycin [Note 7] [Note 1] 4–5mg/kg IBW / AdjBW IV, ONCE (max 500mg) PLUS Cefazolin 2g IV, 8 hourly PLUS Metronidazole 500mg IV, 12 hourly	Tobramycin [Note 7] [Note 1] 4–5mg/kg IBW / AdjBW IV, ONCE (max 500mg) PLUS Metronidazole 500mg IV, 12 hourly PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)			
Sommermon,	Intravas	scular device	Discuss early removal of device w Tobramycin [Note 7] [Note 1] 4–5mg/kg IE PLUS Vancomycin [Note 5] 25–30mg/k	•	()			

Adult Community Acquired Sepsis Prescribing Guidelines – First dose **High MRSA Tropical (north of Mackay)**



Sepsis WITHOUT Shock (continued) Penicillin allergy - Penicillin allerg								
Source of infection	Empirical antibiotic regimen	non-severe hypersensitivity	hypersensitivity (e.g. anaphylaxis					
MULTIPLE POSSIBLE SOURCES								
Community acquired pneumonia / urinary If at risk of Melioidosis [Note 2] seek ID advice	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 Melioidosis [Note 2] seek ID advice	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	Tobramycin [Note 7] [Note 1] 4–5mg/kg IBW / AdjBW IV, ONCE (max 500mg) PLUS Cefazolin 2g IV, 8 hourly	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					
	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)	(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					

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

- 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.
- 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.
- Listeria risks: Immunosuppression, >50yrs, history of hazardous alcohol consumption, pregnancy or debilitation.
- 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.
- Vancomycin: Dose according to Actual Body Weight (ABW). See eTG for subsequent dosing or dosing in obesity. Maximum loading Note 5 dose: 3000mg.
- Note 6 Alternative to clindamycin: Lincomycin the recommended dose of IV lincomycin is 600mg IV, 8 hourly.
- 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.
- Note 9 Patients with asplenia or hyposplenia are at high risk of invasive meningococcal disease.

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