Adult Community Acquired Sepsis Prescribing Guidelines – First dose Low 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).

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

	Source of i		Empirical antibiotic regimen	Penicillin hypersensitivity (all)
30 1		Meningococcus or 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 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, then seek ID or maternity specialist advice
		Febrile neutropenia (refer to local guidelines where available)	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)
hour		Necrotising fasciitis	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 ADD Ciprofloxacin [Note 4] 400mg IV, 8 hourly	Arrange immediate surgical consultation regarding debridement 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
		Community acquired pneumonia	Ceftriaxone 2g IV, daily PLUS Azithromycin 500mg IV, daily PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)	Moxifloxacin [Note 4] 400mg IV, daily PLUS Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg)
		At risk of tropical infection [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 IV loading dose (max 3000mg)
	?	All other infection sources or SOURCE NOT APPARENT	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 If at risk of MRSA [Note 8] ADD Vancomycin [Note 5] 25–30mg/kg ABW IV loading dose (max 3000mg) For suspected toxic shock ADD Clindamycin [Note 6] 600mg IV, 8 hourly	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 IV loading dose (max 3000mg) For suspected toxic shock 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 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.

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 seizu
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 seizu
	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
			20mL (2g dose)	Inject 2g: 5min	solutions (e.g. Hartmann's), flush thorou
Ciprofloxacin	Infusion bag or infusion vial 200mg/100mL	No reconstitution required	N/A	Infuse: 60min	Local infusion reactions may occur if give 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% NaCI): 2g dose	Infuse 2g: 30min	Infusion is preferred as phlebitis is comm Rapid IV administration may cause seizi
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 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 <i>OR</i> 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 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 ar 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.

Page 6 of 6

- 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 Government URN: Family name: **Adult Sepsis Pathway** Given name(s) Low 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 For use in maternity patients of any gestation up to six weeks postpartum. 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. Screen ALL adult patients who meet ANY of the following criteria (tick all that apply) Looks sick Current or recent fever with or without chills or rigors You suspect they may have sepsis Hypothermia <35.5°C

Signs of clinical deterioration (e.g. change in behaviour or new

onset confusion or total Q-ADDS / Q-MEWT score of ≥4)

DO NOT WRITE IN THIS BINDING MARGIN	

Has a suspected infection

Signatu

Screening initiated:

Patient / family / carers concerned about patient condition

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

Ag-presentation within 48 hours of requiring repeated review Malnourished or frail mpaired immunity (e.g. diabetes, steroids, chemotherapy, neutropenia, asplenia) howelling medical device (e.g. PIVC, catheter, drain)	Recent trauma / surgery / invasive procedure Postpartum / miscarriage Aboriginal and / or Torres Strait Islander	е
	AND / OR	
here ANY potential source of infection? (tick all pole) Genital tract / reproductive system Respiratory tract Jrinary tract Abdomen / GIT Breach of skin integrity / soft tissue / joint		
YES-		
es the patient have ANY high risk criteria? (all that apply) (a) (b) (c) (c) (c) (d) (d) (d) (e) (e) (e) (e) (e	Does the patient have ANY moderate risk of (tick all that apply) Systolic BP 90–99mmHg Respiratory rate 21–24 breaths per min Heart rate 90–129 beats per min OR new arryth Has not passed urine in past 12–18 hours Temperature <35.5°C or ≥38.5°C (≥38.0°C for right patients) Family members / carers concerned about mental Acute deterioration in functional ability	nm
▼ YES	VES I	NC
tient has SEPSIS or SEPTIC SHOCK until oven otherwise btain immediate senior medical review ommence resuscitation AND consider calling Retrieval ervices Queensland (RSQ) 1300 799 127 if rural or remote crease observation frequency nsure lactate taken	Patient may have SEPSIS Obtain immediate senior medical review and/or consider calling RSQ if rural or remote Ensure lactate taken	
<u></u>	Low risk for SEP	S
nior medical review attended: DD / MM / YY	Look for other condeterioration	
INT name of senior medical reviewer:	• Consider hypovola stroke and PE	ıe
Commence resuscitation and treatment for second Consider calling RSQ (1300 799 127) or RFDS	eptic shock is likely? epsis / septic shock unlikely sepsis NOW (see page 2) S (if normal pathway) • In the event of detreassess sepsis riscopy of this form • If to be discharged give patient sepsis instructions	sk d h
re Log Every person documenting in this clinical pathw	vay must supply a sample of their initials and signature be	lo

If you suspect neutropenic sepsis, refer to local guidelines if available, otherwise continue screening on this pathway

ANY moderate risk criteria? SEPSIS 4 breaths per min ats per min OR new arrythmia past 12–18 hours or ≥38.5°C (≥38.0°C for maternity PATHWAY ers concerned about mental state unctional ability NO medical alling RSQ Low risk for SEPSIS · Look for other common causes of deterioration · Consider hypovolaemia, AMI stroke and PE • In the event of deterioration reassess sepsis risk using a new copy of this form · If to be discharged home, give patient sepsis discharge instructions initials and signature below Print name Signature Role Print name Page 1 of 6

Page 5 of 6

Queensland			(Affix identification label here)			
	Govern		URN:			
			Family name:			
	Adult	: Sepsis Pathway	Given name(s):			
	Low	MRSA Non-Tropical	Address:			
			Date of birth: Se	с: ПМ ПЕ	Пі	
	Notify pureir	as toom loader and conjer media	al staff the patient has potential sepsis			
			ute Resuscitation Plan (ARP) if relevant.	or septic shock		
	(1) Comm	ence Actions 1–4 within:				
	30 minutes	From recognition of neutropenic or r	meningococcal sepsis			
	1 hour	From recognition of septic shock				
	1 hour	From triage or recognition of sepsis	where there is high likelihood that organ dysf	unction is due to i	nfectio	
	3 hours		disfunction where there is less certainty this is	due to infection,	but	
	Dogument veri	concern for infection persists after range in medical record if key tasks not co				
			minenced within these time names.			
		or remeasure) lactate us / Point of care)		Lactate collect	1	
	(Arterial / Verio	as / I officer care)		Date: Time: HH:MM	Initials	
	2. Take 2 set	s of blood cultures		2 sets blood c	ultures	
		o antibiotics unless this would delay treatm		collected		
	 If patient has a central line collect an additional (third) set of blood cultures via the line Collect FBC, UEC and glucose (or Chem8 iStat), LFT and lipase 					
빝		ock add coagulation studies	not delay antihistica	Date: Time:	Initials	
RESUSCITATE		sputum and other relevant cultures but do e or review antibiotics	not delay antibiotics	DD/MM/YY HH:MM		
SC		source of infection (including relevant image	ging findings)	Antibiotics commenced		
ns		ibiotics according to guidelines. Modify for staff of urgent need to administer antibiot	allergies or prior microbiological sensitivities			
8	 Consider refe 	rral to consulting microbiologist or infection	us diseases physician (particularly if: septic shock,			
	recent overse patient)	eas travel, risk factors for multi-resistant org	ganisms, IV drug use, morbid obesity or dialysis	Date: Time:	Initials:	
	· · ·	e IV fluids if clinically indicated		☐ IV fluids comm	nenced	
	 Consider volu 	ime of fluid based on patient's weight, card	diac function, comorbidities, current volume status	☐ Not indicated		
	and haemodyIf bolus indica		sseous Hartmann's or sodium chloride 0.9%			
		umin 5% solution for patients with septic sh	nock f clinically indicated – do NOT exceed 30mL/kg			
		r medical input	r clinically indicated – do NOT exceed 30HL/kg	Date: Time:	Initials	
	If IV access n	ot possible, consider intraosseous route		DDIMMIYY NH:MM		
		drenaline: usual commencing dose	ension during or after fluid resuscitation 5mcg/min) or consider referral to ICU or	 Vasopressors inotropes cons Not indicated		
	1	source control		☐ Source contro	I	
		Source control is URGENT – Ongoing se and comprehensive source control	epsis treatment is unlikely to be effective	facilitated Not indicated		
	If source cont	•	ately notify appropriate surgical or interventional	Not indicated		
	teamConsider rem	oving or changing existing indwelling med	ical devices (e.g. IV lines or urinary catheters)			
		and monitor response to resuscitati ation ≥92% and titrate to range of 92–96%				
	Systolic BP >	100mmHg			\ \ \	
		>0.5 to 1.0mL/kg/hr – consider IDC with ho mic status is not improving seek urgent	ourly monitoring t (further) senior medical advice and escalate to	higher level of car	·e	
		and the state of t	Carrier, Commercial and Carrier and Cooking to			

8. Document and communicate ongoing management:

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

Notify treating team of change in clinical condition

Document clear management plan

to accepting clinician

Transferring staff name:

Review antibiotics as soon as possible

• Document appropriate criteria to ensure escalation if signs of deterioration

Communicate the patient's risk of deterioration during handover

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

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

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



Sepsis WITHOUT Shock Penicillin allergy – severe Empirical antibiotic regimen Source of infection SINGLE SOURCE Meningitis **Before** or with the first dose of **Before** or with the first dose of Before or with the first dose of antibiotic: antibiotic Dexamethasone 10mg IV, 6 hourly Dexamethasone 10mg IV, 6 hourly Dexamethasone 10mg IV, 6 hourly PLUS Moxifloxacin (Note 4) **PLUS** Ceftriaxone 2g IV, 12 hourly **PLUS** Ceftriaxone 2g IV, 12 hourly 400mg IV, daily If at risk of *Listeria* [Note 3] If at risk of *Listeria* [Note 3] Non-pregnant: ADD Benzylpenicillin 2.4g IV, If at risk of Listeria [Note 3] 4 hourly ADD Trimethoprim-Non-pregnant: Sulfamethoxazole [Note 4] 5/25mg/kg | ADD Trimethoprim If recent penicillin use or (up to 480/2400mg) IV, 8 hourly Sulfamethoxazole [Note 4] 5/25mg/kg sinusitis / chronic otitis media (up to 480/2400mg) IV, 8 hourly Pregnant: 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 immediately SECOND or THIRD trimester -Trimethoprim-Sulfamethoxazole Note 4] 5/25mg/kg (up to Trimethoprim-Sulfamethoxazole 480/2400mg) IV, ONCE, then seek [Note 4] 5/25mg/kg (up to 480/2400mg) IV. ONCE, then seek ID or maternity specialist advice 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) Febrile neutrope Piperacillin-Tazobactam (Note 1) Cefepime [Note 1] 2g IV, 8 hourly Tobramycin [Note 7] [Note 1] 4-5mg/kg IBW / AdjBW IV, ONCE refer to local 4/0.5g IV, 6 hourly If at risk of MRSA [Note 8] (max 500mg) If at risk of MRSA [Note 8] ADD Vancomycin [Note 5] PLUS Vancomycin [Note 5] ADD Vancomycin [Note 5] 25-30mg/kg ABW IV loading dose 25-30mg/kg ABW IV loading dose 25-30mg/kg ABW IV loading dose (max 3000mg) (max 3000mg) Flucloxacillin 2g IV, 6 hourly Cefazolin 2g IV, 8 hourly Vancomycin [Note 5] and 25-30mg/kg ABW IV loading dose (max 3000mg) soft tissue 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 IV, infections PLUS Metronidazole 500mg IV, 8 hourly PLUS Clindamycin [Note 6] 600mg IV, 8 hourly Necrotising Freat necrotising fasciitis with the regimen specified in the 'Sepsis WITH Shock' table fasciitis Benzylpenicillin 1.2g IV, 6 hourly Ceftriaxone 2g IV, daily Community acquired 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 Tobramycin Note 7 Note 1 Tobramycin (Note 7) (Note 1) Tobramycin (Note 7) (Note 1) Urinary 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] 4-5mg/kg IBW / AdjBW IV, ONCE PLUS Metronidazole 500mg IV, 4-5mg/kg IBW / AdjBW IV, ONCE (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 (chorioamnionitis) or (max 500mg) (max 500mg) (max 500mg) endometritis PLUS Ampicillin 2g IV, 6 hourly PLUS Cefazolin 2g IV, 8 hourly PLUS Metronidazole 500mg IV, 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) Intravascular device Discuss early removal of device with treating team 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)

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



Sepsis WITHOUT Sh	OCK (continued)		
Source of infection	Empirical antibiotic regimen	Penicillin allergy – non-severe hypersensitivity	Penicillin allergy – severe hypersensitivity (e.g. anaphylaxis)
MULTIPLE POSSIBLE SOURCE	S		
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
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]	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]	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)
	25–30mg/kg ABW IV loading dose (max 3000mg) If concerned for invasive	25–30mg/kg ÁBW IV loading dose (max 3000mg)	If concerned for invasive meningococcal disease [Note 9] ADD Ciprofloxacin [Note 4] 400mg IV,
	meningococcal disease [Note 9] ADD Ceftriaxone 2g IV, 12 hourly	meningococcal disease [Note 9] ADD Ceftriaxone 2g IV, 12 hourly	8 hourly

Intensive respiratory or vasopressor support.

- **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.
- zg (snock), 8 nouny.
 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.
- Note 3 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.
- 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.
- **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*.
- 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.

Page 4 of 6

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

Page 2 of 6

WRITE

Z

Referral complete

and documented

(24hr)

Date and time completed:

Accepting staff name:

RITE IN THIS