

Adult First Dose Sepsis and Septic Shock Administration Guidelines

Sepsis is a medical emergency. This guideline has been developed to facilitate the rapid administration of antibiotics for sepsis and septic shock.

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:

- clamp the infusion fluid line and flush with 10mL sterile sodium chloride 0.9% solution
- administer antibiotic over the required time
- flush the line with 10mL sterile sodium chloride 0.9% solution and recommence resuscitation fluid.

Multiple antibiotic orders:

Medications should be administered in an order that ensures the highest number of antibiotics is given to the patient as quickly as clinically appropriate (i.e. antibiotics with short administration times are given first and long infusions are given last).

Antibiotic	Presentation	fluid / volume (for mixing powdered medications)	Final volume	administration time	Notes
Ampicillin	Vial 1g	10mL WFI	20mL	Inject or infuse doses 2g: 10–15min ¹	Rapid IV administration may cause seizures
Amoxicillin- Clavulanate	Vial 2/0.2g	20mL WFI	20mL	Inject: 3–5min	
Azithromycin	Vial 500mg	4.8mL WFI Then add to infusion bag	250mL or 500mL (0.9% NaCl)	Infuse: 60min ¹	Local infusion-site reactions may occur
Benzylpenicillin	Vial 600mg Vial 1.2g	10mL WFI 20mL WFI	10mL 20mL	Inject: 5–10min ⁴	Inject at maximum rate of 300mg/min ⁴ : 1.2g in 20mL WFI given over 5min 1.8g in 30mL WFI given over 6min 2.4g in 40mL WFI given over 8min Rapid IV administration may cause seizures
Ceftriaxone	Vial 1g	10mL WFI	10mL (1g dose) 100mL (0.9% NaCl) (2g dose)	Inject 1g: 2–4min Infuse 2g: 30min	Incompatible with calcium containing solutions, flush thoroughly
Cefazolin	Vial 2g	10mL WFI	20mL	Inject: 5min	
Ceftazidime	Vial 1g or 2g	10mL WFI	10mL	Inject 2g: 3–5min	
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 60mins ¹
Clindamycin	Ampoule 300mg/2mL, 600mg/4mL	No reconstitution required	100mL (0.9% NaCl) (900mg)	Infuse 900mg: 30–40min	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 (2g dose)	Infuse 2g: 30min	The 2g dose can be given by injection over 6–8min, however infusion is preferred as phlebitis is common and can be severe Rapid IV administration may cause seizures
Gentamicin	Ampoule 80mg/2mL	No reconstitution required	20mL (0.9% NaCl)	Inject: 3–5min (max dose = 700mg)	Gentamicin is inactivated by penicillin and cephalosporin antibiotics. Do not mix in the same injection or infusion solution. Administer at separate sites if possible. Where it is not practical or possible to administer separately, flush the line well before and after giving each drug ¹ DO NOT delay administration of these antibiotics
Lincomycin	Vial 600mg/2mL	No reconstitution required	100mL (0.9% NaCl) (900mg)	Infuse 900mg: 60min	Severe cardiopulmonary reactions have occurred when given faster than 1g/hour or in concentrations of more than 1g/100mL ¹
Meropenem	Vial 1g	20mL WFI	20mL	Inject: 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	50mL	Infuse: 20min	Rapid IV administration may cause seizures
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 Vial 1g	10mL WFI 20mL WFI	1g in 250mL Final concentration: 2.5–5mg/mL (strict fluid restriction: max of 10mg/mL)	Sepsis infusion times 1g or less: 60min 1.5g dose: 90min 2g dose: 120min 2.5g dose: 150min 3g dose: 180min	Infusion related effects are common (red man syndrome); decrease infusion rate and monitor May cause pain at the injection site and thrombophlebitis; dilute further and rotate the infusion site h 2019. 4. electronic Medicines Compendium (eMC)

References: 1. AIDH 7th Edition, accessed March 2019. 2. QH Aminoglycoside Dosing in Adults, May 2018. 3. Micromedex, accessed March 2019. 4. electronic Medicines Compendium (eMC) https://www.medicines.org.uk/emc, accessed March 2019. Page 5 of 6

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Non- Facilit	Queensland	(Affix identification label here)					
Government URN:							
	Emergency Department Family name:						
Non	on-pregnant Adult Sepsis Pathway						
1	For tertiary and secondary facilities	, ,					
	Low MRSA Non-Tropical Address:						
Facilit	y:	Date of birth: Sex: M F					
Ullilleal	pathways never replace clinical judgement. tlined in this pathway must be altered if it is not clinicall	y appropriate for the individual patient.					
Septic	Shock = shock + infection (mortality 20–23%)	epsis = organ dysfunction + infection (mortality 10-12%)					
Look You	s sick Suspect they may have sepsis Suspected infection Fever symptoms Hypothermia <3 Signs of clinical	nt patients who meet ANY of the following criteria (tick all that aps (or recent fever symptoms) 5.5°C deterioration (e.g. altered level of consciousness or total Q-ADDS score os if available, otherwise continue screening on this pathway					
	Screening initiated: DD / MM / YY HH:	MM (24hr)					
	Are ANY of the following risk factors preser Absence of risk factors does not exclude sepsis						
	Re-presentation within 48 hours	Recent trauma or surgery / Invasive procedure					
	Malnourished or frail Immunocompromised / Asplenia / Neutropaenia	☐ Postpartum / Miscarriage ☐ IV drug use or alcoholism					
	Individual device	Aboriginal and / or Torres Strait Islander					
	AND / OR						
	Is there ANY reason to suspect an infection Yes, but source is unclear at present	? (tick all possible sources that apply) ☐ CNS / Meningitis					
SE	Respiratory tract						
Z	☐ Urinary tract ☐ Family members / carers are concerned there is an infection ☐ Other (specify): ☐ Other (s						
RECOGNISE	Skin / Joint / Prosthesis / Device						
E C	<u></u>	YES NO					
œ	Does the patient have ANY high risk criteria	? Does the patient have ANY moderate risk criteria?					
	(tick all that apply)	(tick all that apply)					
	Respiratory rate ≥25 breaths/min New oxygen requirement to keep oxygen saturation ≥92% Respiratory rate 21–24 breaths/min Heart rate 90–129 beats/min <i>OR</i> new dysrhythmia						
	Heart rate ≥130 beats/min Systolic BP 90–99mmHg						
	☐ Not passed urine in last 18 hours <i>OR</i>	Not passed urine in last 12–18 hours Temperature <35.5°C or ≥38.5°C					
	urinary output (UO) <0.5 mL/kg/hr (if known) Evidence of new or altered mental state	Family members / carers concerned about mental state					
	☐ Lactate ≥2mmol/L if known	Acute deterioration in functional ability					
	Non-blanching rash / Mottled / Ashen / Cyanotic	NO					
	▼ YES	YES NO					
ш	Patient has SEPSIS or SEPTIC SHOCK	Patient may have SEPSIS					
ΑT	until proven otherwise Obtain immediate senior medical review	Ensure lactate taken Obtain senior medical review					
٩L	Consider transfer to resuscitation area	Obtain senior medical review					
DE-ESCALATE	Commence resuscitation						
Ж	*	_					
	Senior medical review attended: DD / MM / YY HH : MM (24hr) Low risk for SEPS • Look for other composition of deterioration						
Ē/							
ΙĄ	Sensis / sentic shock likely Sensis / sentic shock unlikely In the event of deterioration						
AL	reassess sepsis risk using a new copy of this form						
ESCALATE	Commence resuscitation and treatment for sensis NOW (See page 2) • If to be discharged home,						
Ш		give patient sepsis discharg instructions					
	dama I a a						
Signa	9	cal pathway must supply a sample of their initials and signature below lole Initials Signature Print name Rol					
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	-				
Commence IV or intraosseous fluids if clinically indicated Consider volume of fluid based on patient's weight, cardiac function, comorbidities, current volume status and haemodynamics If bolus indicated, rapidly infuse 250mL–500mL IV or intraosseous 0.9% NaCl or Hartmann's over 5 minutes Assess response to fluid and consider repeating bolus if clinically indicated - do NOT exceed 30mL/kg without SMO input					
5. Consider vasopressors/inotropes for hypotension during or after fluid resuscitation (e.g. Noradrenaline: usual commencing dose 5mcg/min) Vasopresso inotropes considered (or not indical)					
d source control - if this requ appropriate surgical or inter	uires operative intervention ensure early rventional team	Source control facilitated (or not required)			
n >94% (88–92% if COPD) nm Hg to 1.0mL/kg/hr – consider IDC with	n hourly monitoring				
8. Early referral to relevant inpatient team with clinical hand-over, and document: • Appropriate criteria to ensure escalation of signs of deterioration • Requirement to review antibiotics as soon as possible • Need for infectious diseases, microbiologist or AMS team review, particularly in septic shock					
deterioration to receiving no	Date and time complete:	24hr) initials			
t	separation to receiving need out of ED	to 1.0mL/kg/hr – consider IDC with hourly monitoring status not improving or if vasopressors/inotropes commenced refer to ICU to relevant inpatient team with clinical hand-over, and document: a to ensure escalation of signs of deterioration view antibiotics as soon as possible s diseases, microbiologist or AMS team review, particularly in septic shock f deterioration to receiving nurse when ed out of ED Date and time complete: can be initiated at any time if you are			

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ED Adult Community Acquired Sepsis Prescribing Guidelines Low MRSA Non-Tropical

Discuss antibiotic choices with an Infectious Diseases Specialist (ID) or Microbiologist if there are any concerns with antibiotic choice, OR if the patient:

- may require treatment for a combination of suspected sources
- is at risk of hospital acquired infection, or multidrug-resistant infection[Note 1]
- has contraindications to specific antibiotic therapy recommended in this guideline, or is at extremes of weight
- has suspected encephalitis, necrotising fasciitis, water-related skin and soft tissue infection or tropical infection[Note 2]
- is immunocompromised (N.B. if febrile neutropenia is suspected refer to local guidelines/call Infectious Diseases Specialist).

Septic shock (all antibiotics to be commenced within one hour)

For adult emergency department (non-pregnant) patients only

So	urce of infection	Empiric	al antibiotic regimen	Penicillin allergy (all)	
	Meningo or menin	daily) If at risk of Li ADD Benzylpe If gram-positi Gram stain, r sinusitis/chro ADD Vancomy loading dose In give antibiotic	enicillin 2.4g IV, 4 hourly ive cocci seen on CSF ecent penicillin use, or onic otitis media ycin ^[Note 4] 30mg/kg ABW IV	Dexamethasone 10mg IV, 6 hourly (before or with the first dose of antibiotic) Ciprofloxacin 400mg IV, 8 hourly PLUS Vancomycin ^[Note 4] 30mg/kg ABW IV loading dose	
(1h)	fasciitis Communacquirect pneumo	Arrange imme nity Give antibiotic PLUS Azithror	PLUS Lincomycin ^[Note 5] 900mg IV, 8 hourly Arrange immediate surgical consultation regarding debridement Give antibiotics as per the 'All other infection sources causing septic shock' PLUS Azithromycin 500mg IV, daily		
	At risk o tropical infection	PLUS Vancon	Meropenem 1g IV, 8 hourly PLUS Vancomycin ^[Note 4] 30mg/kg ABW IV loading dose		
	All other infection causing septic sho	max 700mg PLUS Amoxic 8 hourly If has pre-exi device or at r	e 6] 7mg/kg IBW/AdjBW IV, illin-Clavulanate 2/0.2g IV, sting intravascular isk of MRSA ^[Note 7] ycin ^[Note 4] 30mg/kg ABW IV	Gentamicin ^[Note 6] 7mg/kg IBW/AdjBW IV, max 700mg PLUS Metronidazole 500mg IV, 12 hourly PLUS Vancomycin ^[Note 4] 30mg/kg ABW IV loading dose	
		loading dose	yolin a Johng/kg Abvv IV		

- tadmission (within 12 months) to an overseas hospital with a high prevalence of multidrug-resistant gram-negative organisms previous colonisation or infection with a resistant gram-negative organism, such as Carbapenemase Producing Enterobacterales (CPE), meropenem and/or gentamicin resistant organism, Multidrug-Resistant Gram-Negative organism (MRGN) OR Vancomycin
- Tropical infection (Burkholderia pseudomallei or Acinetobacter baumannii) risks: travel to tropical countries or north of Mackay AND diabetes, hazardous alcohol consumption, chronic kidney disease, chronic lung disease, immunosuppressive therapy.
- hosuppression, >50yrs, history of hazardous alcohol consumption, pregnancy, debilitation.
- Vancomycin dosing: Vancomycin is dosed according to Actual Body Weight (ABW). See Therapeutic Guidelines (eTG) for subsequent dosing or dosing in obesity.

 Note 5 Clindamycin can be used instead of IV Lincomycin. The recommended dose of IV Clindamycin is 900 mg IV, 8 hourly.
- micin dosing: Gentamicin is dosed according to Ideal Body Weight (IBW) or actual body weight, whichever is less. Where actual body weight is >20% of IBW, use Adjusted Body Weight (AdjBW). For adjusted dosing calculations or patients with known or likely pre-existing renal impairment please see Therapeutic Guidelines (eTG) or QH Aminoglycoside Dosing in Adults Guidelines, April Gentamicin can be given as a single dose in adults with sepsis, regardless of age.
- MRSA infection risks: Chronic underlying disease (e.g. renal failure, diabetes), immunosuppression, chronic wounds or dermatitis, jection drug use, living in close quarters or communities with high MRSA prevalence, known colonisation with MRSA.
- **Note 8** Pseudomonas risks include frequent exposure to water or moist environment, or previous Pseudomonas colonisation.

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Sepsis (NOT septic shock)

For adult emergency department (non-pregnant) patients only. Refer to notes on page 3.

Source of infection		fection	Empirical antibiotic regimen	Penicillin allergy - NOT immediate hypersensitivity	Penicillin allergy - immediate hypersensitivity (anaphylaxis)	
SINGLE SO	URCE					
	Meningitis		Dexamethasone 10mg IV, 6 hourly (before or with the first dose of antibiotic) Dexamethasone 10mg IV, 6 hourly (before or with the first dose of antibiotic)		Dexamethasone 10mg IV, 6 hourly (before or with the first dose of antibiotic)	
			Ceftriaxone 2g IV, 12 hourly (or 4g IV, daily) If at risk of Listeria ^[Note 3] ADD Benzylpenicillin IV 2.4g, 4 hourly Ceftriaxone 2g IV, 12 hourly (or 4g IV, daily) If at risk of Listeria ^[Note 3] ADD Trimethoprim- Sulfamethoxazole 160/800mg IV, 6 hourly		Ciprofloxacin 400mg IV, 8 hourly PLUS Vancomycin ^[Note 4] 30mg/kg ABW IV loading do	
			If gram-positive cocci seen on C penicillin use, or sinusitis/chror ADD Vancomycin ^[Note 4] 30mg/kg A			
	Skin and	Cellulitis	Flucloxacillin 2g IV, 6 hourly	Cefazolin 2g IV, 8 hourly	Vancomycin ^[Note 4] 30mg/kg ABW IV loading dose	
	soft	Water-related	Give cellulitis regimen then seek ID advice			
No.	tissue	Diabetic foot infections	Amoxicillin-Clavulanate 2/0.2g IV, 8 hourly If Pseudomonas risk present(Note 8) replace with Piperacillin-Tazobactam 4/0.5g IV, 6 hourly Cefazolin 2g IV, 8 hourly PLUS Metronidazole 500mg IV, 12 hourly		Ciprofloxacin 400mg IV, 12 hourly PLUS Lincomycin ^[Note 5] 900mg IV, 8 hourly	
	Necrotising fasciitis		Treat necrotising fasciitis with the			
	Community acquired pneumonia (SMART-COP <5, or at low risk of requiring IRVS§)		Benzylpenicillin 1.2g IV, 6 hourly PLUS Doxycycline 200mg PO loading dose, followed by 100mg PO, 12 hourly If IRVS⁵ required or SMART-COP ≥5 replace Benzylpenicillin with Ceftriaxone 1g IV, 12 hourly	Ceftriaxone 1g IV, daily PLUS Doxycycline 200mg PO loading dose, followed by 100mg PO, 12 hourly	Moxifloxacin 400mg PO/IV, daily	
613	Urinary		Gentamicin ^[Note 6] 4–5mg/kg IBW/AdjBW IV, max 500mg PLUS Ampicillin 2g IV, 6 hourly	Gentamicin ^[Note 6] 4–5mg/kg IBW/AdjBW IV, max 500mg PLUS seek ID advice	Gentamicin ^[Note 6] 4–5mg/kg IBW/AdjBW IV, max 500mg PLUS seek ID advice	
	Abdominal		Gentamicin ^[Note 6] 4–5mg/kg IBW/AdjBW IV, max 500mg PLUS Ampicillin 2g IV, 6 hourly PLUS Metronidazole 500mg IV, 12 hourly	Ceftriaxone 1g IV, daily PLUS Metronidazole 500mg IV, 12 hourly	Gentamicin ^[Note 6] 4–5mg/kg IBW/AdjBW IV, max 500mg PLUS Lincomycin ^[Note 5] 900mg IV, 8 hourly	
paranemano.	Intravascular device (discuss early removal of device with treating team)		Gentamicin ^[Note 6] 4–5mg/kg IBW/A PLUS Vancomycin ^[Note 4] 30mg/kg /			
	Febrile neutropenia (refer to local guidelines where available)		Piperacillin-Tazobactam 4/0.5g IV, 6 hourly If at risk of MRSA ^[Note 7] ADD Vancomycin ^[Note 4] 30mg/kg ABW IV loading dose	Ceftazidime 2g IV, 8 hourly If at risk of MRSA ^[Note 7] ADD Vancomycin ^[Note 4] 30mg/kg ABW IV loading dose	Gentamicin ^[Note 6] 4–5mg/kg IBW/AdjBW IV, max 700mg PLUS Vancomycin ^[Note 4] 30mg/kg ABW IV loading do PLUS seek ID advice	
MULTIPLE F	POSSIBL	E SOURCES	<u>'</u>			
	Community acquired pneumonia/urinary		Gentamicin ^[Note 6] 4–5mg/kg IBW/AdjBW IV, max 500mg PLUS Ampicillin 2g IV, 6 hourly PLUS Doxycycline 200mg PO loading dose, followed by 100mg PO, 12 hourly	Ceftriaxone 1g IV, daily PLUS Doxycycline 200mg PO loading dose, followed by 100mg PO, 12 hourly	Seek ID advice	
	Community acquired pneumonia/cellulitis		Cefazolin 2g IV, 8 hourly PLUS Doxycycline 200mg PO loading dose, followed by 100mg PO, 12 hourly		Seek ID advice	
	Urinary/abdominal		Gentamicin ^[Note 6] 4–5mg/kg IBW/AdjBW IV, max 500mg PLUS Ampicillin 2g IV, 6 hourly PLUS Metronidazole 500mg IV, 12 hourly	Ceftriaxone 1g IV, daily PLUS Metronidazole 500mg IV, 12 hourly	Gentamicin ^[Note 6] 4–5mg/kg IBW/AdjBW IV, max 500mg PLUS Lincomycin ^[Note 5] 900mg IV, 8 hourly	
SOURCE UN	KNOW	N				
?	No obvious source of infection		Gentamicin ^[Note 6] 4–5mg/kg IBW/AdjBW IV, max 500mg PLUS Flucloxacillin 2g IV, 4 hourly If at risk of MRSA ^[Note 7] ADD Vancomycin ^[Note 4] 30mg/kg ABW IV loading dose	Gentamicin ^[Note 6] 4–5mg/kg IBW/AdjBW IV, max 500mg PLUS Cefazolin 2g IV, 6 hourly If at risk of MRSA ^[Note 7] ADD Vancomycin ^[Note 4] 30mg/kg ABW IV loading dose	Gentamicin ^[Note 6] 4–5mg/kg IBW/AdjBW IV, max 500mg PLUS Vancomycin ^[Note 4] 30mg/kg ABW IV loading do	

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