### DEPARTMENT OF **HEALTH**

#### Principal name: Other name(s): D.O.B: HRN: Sex:

Patient Label

# ACUTE CARE ADULT SEPSIS PATHWAY

Address must be documented if patient details handwritten

#### Sepsis is a time-critical MEDICAL EMERGENCY

Clinical pathways never replace clinical judgment. Use this pathway for patients with an acute illness 18 years and older in conjunction with NT Adult Sepsis Guideline and NT Observation Chart.

years and older in conjunction with NT Addit Sepsis Guideline and NT Observation Chart.						
Date	: Time: Initial: I	Print name:	_ Role:			
Could it be sepsis?						
Co	Consider sepsis in all patients with signs/symptoms of an infection and abnormal vital signs. Presentation can vary between patients and at times may not be obvious. <i>Tick below all that apply.</i>					
	can vary between patients and at times may not be obvious. Tick below all that apply.					
	Are there signs/symptoms that are consistent with an infection?	Increase your suspicion of sepsis in these patier				
	☐ Fever or hypothermia, rigors, myalgia, chills	Aboriginal and Torres Strait Islander people gre Indigenous people greater than 65 years	eater than 45 years, non-			
	Neurological: confusion, neck stiffness,	☐ Homeless				
	headache	☐ Alcohol misuse				
	Skin: cellulitis, increased pain, infected	☐ Previous sepsis admission				
	wounds, tenderness out of proportion  Respiratory: cough, sputum, breathlessness	<ul><li>Re-presentation</li><li>Worsening of recently treated infection</li></ul>				
	□ Abdomen: severe pain, tenderness	Recent surgery or invasive procedure				
	☐ Genitourinary: dysuria, frequency,	☐ Chronic illnesses: diabetes, renal failure,				
	discharge	haemodialysis, cirrhosis				
	Intravenous (IV) line access: redness, pain,	☐ Bacteraemia risk: prosthetic valves, IV drug				
ш	swelling, discharge  Musculoskeletal: swollen, painful, tender,	use, implantable/indwelling medical devices				
<u>S</u>	hot joints or limbs, back pain or spinal	Immunocompromised: HIV, cancer or				
ß	tenderness	immunosuppressive therapy  Patient on beta-blockers				
ဝ္ပ	Maternity: given birth or TOP/ miscarriage in	Recent trauma including minor trauma				
RECOGNISE	the last 6 weeks AND increased vaginal bleeding OR new offensive discharge OR	Maternity:				
	new abdominal pain					
		<ul> <li>Recent birth, operative or assisted birth and/or membranes and/or pre-term birth</li> </ul>	prolonged rupture of			
	PLUS any of the following criteria:					
	☐ Vital signs that trigger a MET call	☐ Vital signs in the pink or yellow zone on the				
	☐ Vital signs that trigger a MET can ☐ Vital signs that trigger a Rapid Response in	observation chart	☐ Nil escalation			
	ED	☐ Lactate greater than 2 mmol/L (if known) ☐ White cell count greater than 12.0 x 10 <sup>9</sup> /L or	criteria present			
	☐ A drop in systolic blood pressure (SBP) of 40	less than 4.0 x 10°/L				
	mmHg or more compared to usual SBP	☐ New altered mental status				
		□ Petechiae				
		☐ Unexplained severe/strong pain☐ Clinician/patient/caregiver concern				
		Patient may have sepsis or have other	Sepsis screening			
	Patient may have <b>septic shock</b>	causes for deterioration	negative			
핕	Ward: Call medical emergency team on ***	Notify senior medical officer (SMO) for a clinical review or up-triage to ATS 2	Re-screen as clinically indicated.			
ESCALATE	<b>ED:</b> Notify senior emergency doctor or up-triage to ATS 1 or 2	Escalated to: Time:	Initial:			
ESC	If sepsis suspected by a senior medical officer, commence the SEPSIS BUNDLE. Consider alternate					
	diagnoses and simultaneous investigation and treatment for differential diagnoses.					
RESPOND &	■ Sepsis/septic shock diagnosis Y / N					
ESF						
~	Time: Initial: Print nar	ne:	Role:			
	<ul> <li>If sepsis is not suspected now, document the If patient deteriorates, re-screen by starting a</li> </ul>	e provisional diagnosis in the medical records. Re-evalunew pathway.	uate as clinically indicated.			

If to be discharged home, give patient sepsis recognition education.

Page 1 of 6 MR036.00

**ACUTE CARE ADULT SEPSIS PATHWAY** 



RE-ASSESS & MONITOR

REVIEW

## DEPARTMENT OF **HEALTH**

Principal name:
Other name(s):
D.O.B:
HRN:
Sex:

Pati			1 -	ا م ما	
Pati	$\rho$ r	١T	ıa	nei	

ACUTE CARE
ADULT SEPSIS PATHWAY

Address must be documented if patient details handwritten

#### **SEPSIS BUNDLE: 6 KEY ACTIONS IN 60 MINUTES\***

\*If patient at risk of febrile neutropenia with septic shock, administer antibiotics within 30 minutes.

Ensure management plan aligns with patient's goals of care.

If there are any clinically indicated variations in care to the pathway, document this in the patient record.

1.	Consider oxygen therapy Maintain SpO <sub>2</sub> 94% and above (aim 88-92% for moderate/severe COPD).	■ SpO₂ maintained Y / N
2.	Establish intravenous (IV) access If unsuccessful, obtain access with intraosseous (IO) or central venous catheter.	<ul> <li>Access established Y / N</li> </ul>
3.	Collect blood cultures (2 sets) prior to antibiotics (where possible) and a venous blood gas (with lactate)  Other blood tests: FBC, UEC, LFTs, CRP, blood glucose and coagulation studies.  Other investigations as indicated: CXR, urinalysis, urine culture, sputum culture, joint aspirates, wound and melioid swabs.	<ul> <li>Blood cultures collected Y / N</li> <li>Lactate collected Y / N</li> <li>Lactate level: mmol/L</li> </ul>
4.	Administer IV antibiotics (check allergies)  If source unknown, use sepsis/septic shock without clear focus regimen (p.3).  If source known, use empirical regimen (p.4 to 6).  Ensure nursing staff administer antibiotics immediately.  If surgical source suspected, consult the relevant surgical team.	<ul> <li>1st antimicrobial Y / N commenced</li> <li>2<sup>nd</sup> antimicrobial Y / N commenced</li> </ul>
5.	Assess fluid state and consider fluid resuscitation  If SBP less than 100mmHg or lactate greater than 2mmol/L give 250 to 500 mL fluid bolus (0.9% sodium chloride or Hartmann's) up to 30mL/kg.  Fluid rates, end points and additional boluses must be titrated to meet patient's physiological reserve.  Assess and document baseline physiological reserve (baseline eGFR, exercise tolerance, ejection fraction).  Consider inotropes early in consultation with SMO +/- intensive care physician.	<ul><li>Fluids administered Y / N</li><li>Inotropes required Y / N</li></ul>
6.	Monitor signs of deterioration and urine output For the first 2 hours, monitor vital signs every 30 minutes and urine output every 60 minutes. If warranted, insert IDC.	■ Fluid balance Y / I commenced ■ IDC required Y / I
Bun	dle completed. Time: Initial: Print name:	Role:
		Role:
Re-a	Targeted vital signs as per medical consultation Lactate less than 2 mmol/L  tate level at 4 hours: Time: Level: mmol/L	Urine output greater than 0.5mL/kg/hour
Re-a	Targeted vital signs as per medical consultation Lactate less than 2 mmol/L  tate level at 4 hours: Time: Level: mmol/L  8 hours: Time: Level: mmol/L	Urine output greater than 0.5mL/kg/hour
Re-a	Targeted vital signs as per medical consultation Lactate less than 2 mmol/L  tate level at 4 hours: Time: Level: mmol/L	Urine output greater than 0.5mL/kg/hour
Re-a	Targeted vital signs as per medical consultation Lactate less than 2 mmol/L  tate level at 4 hours: Time: Level: mmol/L  8 hours: Time: Level: mmol/L  alate for further medical review if patient meets any of the following: Tick below which  Targeted vital signs are not achieved Lactate not trending down	Urine output greater than 0.5mL/kg/hour  escalation criteria apply.  New altered mental state
Re-a	Targeted vital signs as per medical consultation Lactate less than 2 mmol/L  tate level at 4 hours: Time: Level: mmol/L  8 hours: Time: Level: mmol/L  alate for further medical review if patient meets any of the following: Tick below which  Targeted vital signs are not achieved Lactate not trending down  Urine output less than 0.5mL/kg/hour	Urine output greater than 0.5mL/kg/hour  escalation criteria apply.  New altered mental state
Re-a	Targeted vital signs as per medical consultation Lactate less than 2 mmol/L  tate level at 4 hours: Time: Level: mmol/L  8 hours: Time: Level: mmol/L  alate for further medical review if patient meets any of the following: Tick below which  Targeted vital signs are not achieved Lactate not trending down Urine output less than 0.5mL/kg/hour  Reconsider diagnosis Reconsider treatment	Urine output greater than 0.5mL/kg/hour  escalation criteria apply.  New altered mental state Clinician/patient/caregiver concern  Follow local transfer procedure Use ISOBAR to handover to receiving team
Re-a	Targeted vital signs as per medical consultation Lactate less than 2 mmol/L  tate level at 4 hours: Time: Level: mmol/L  8 hours: Time: Level: mmol/L  alate for further medical review if patient meets any of the following: Tick below which  Targeted vital signs are not achieved Lactate not trending down Urine output less than 0.5mL/kg/hour  atient deteriorates or fails to improve, re-assess and refer to higher level of care  Reconsider diagnosis Reconsider treatment Consider treatment as a cause for deterioration	Urine output greater than 0.5mL/kg/hour  escalation criteria apply.  New altered mental state Clinician/patient/caregiver concern  Follow local transfer procedure Use ISOBAR to handover to receiving team

Sepsis diagnosis and management plan discussed with patient/family/carer and education provided



#### **DEPARTMENT OF** HEALTH

ADULT SEPSIS PATHWAY

HRN: **ACUTE CARE** Sex:

Principal name: Other name(s): D.O.B:

Patient Label

Address must be documented if patient details handwritten

#### NT Empirical Antibiotic Guide for Severe Infections - Top End, East Arnhem and Big Rivers Regions

Disclaimer: Antibiotic protocols may change. Prescribers should check for updates to the sepsis pathway on PGC.

- Call Infectious Diseases (IFD) for advice as needed. IFD and TEAMS should be used for restricted antimicrobial codes.
- Call IFD or Antimicrobial Stewardship within 48 hours of prescribing empirical restricted antimicrobials, for ongoing antibiotic advice.
- Review antibiotics daily and de-escalate where appropriate (within 48 to 72 hours).
- Below recommendations are for normal renal function (CrCl greater than 50mL/min). Adjust dose in renal impairment.
- Refer to TEAMS, eTG, Vancomycin Adults and Children ≥ 12 years NT Hospitals Guideline or Aminoglycoside Dosing and Monitoring TEHS **Guideline** for Vancomycin and Gentamicin dosing and contraindications.
- Administer antibiotics from shortest to longest infusion times (antibiotics are listed in the order of administration).
- When administering Meropenem in patients with immediate severe or delayed penicillin hypersensitivity, administer cautiously and monitor.

#### Box 1: Gentamicin first dose for septic febrile neutropenia. For obese patients, use adjusted body weight. Administer gentamicin over 3 to 5 minutes.

- Adults without known or likely kidney impairment requiring intensive care support: 7 mg/kg (maximum 680mg)
- Adults without known or likely kidney impairment with sepsis and febrile neutropenia: 7 mg/kg (maximum 680mg)
- Adults with known or likely pre-existing kidney impairment: 4 to 5 mg/kg (maximum 680mg)

#### Box 2: Gentamicin first dose for septic community acquired pneumonia, urinary tract infection, PID, genitourinary infections, intraabdominal source. For obese patients, use adjusted body weight.

- Adults without pre-existing kidney impairment with septic shock or requiring intensive care support: 7 mg/kg (maximum 680mg)
- Adults with pre-existing kidney impairment with septic shock or requiring intensive care support: 4 to 5 mg/kg (maximum 680mg)
- Adults without septic shock and not requiring intensive care support: 4 to 5 mg/kg (maximum 680mg)

#### \* Risk factors for ESBL (extended spectrum beta-lactamase producing bacteria):

Previous colonisation/infection with resistant bacteria, recent high-risk travel (Asia, southern/eastern Europe), prolonged hospitalisation or recent intensive care unit admission, long-term care facility resident or renal patients.

β Risk factors for MRSA (methicillin-resistant Staphylococcus aureus): resident from a jail/detention centre, Aboriginal and Torres Strait Islander people, previous MRSA colonisation and line-associated infection.

# Monitor renal function if using Piperacillin/Tazobactam and Vancomycin in combination. Avoid combination for longer than 72 hours.

	Preferred therapy	Immediate non-severe or delayed non-severe penicillin hypersensitivity	Immediate severe (anaphylaxis) or delayed severe penicillin hypersensitivity (SJS, TEN, DRESS, interstitial nephritis)			
SEPSIS OR SEPTIC SHOCK WITHOUT CLEAR FOCUS						
	Dry Season					
SEPSIS OR SEPTIC SHOCK WITHOUT	Piperacillin/Tazobactam 4.5g IV 6 hourly # AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV	Meropenem 1g IV 8 hourly AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV	Meropenem 1g IV 8 hourly (call IFD on call first) AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV			
CLEAR FOCUS	Wet Season					
Requiring ICU	Meropenem 1g IV 8 hourly AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV	Meropenem 1g IV 8 hourly AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV	Meropenem 1g IV 8 hourly (call IFD on call first) AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV			
	Wet and Dry Season					
SEPSIS WITHOUT CLEAR FOCUS Not requiring ICU	Piperacillin/Tazobactam 4.5g IV 6 hourly # AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV	Meropenem 1g IV 8 hourly AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV	Meropenem 1g IV 8 hourly (call IFD on call first) AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV			



**DEPARTMENT OF HEALTH** 

Principal name: Other name(s): D.O.B: HRN: Sex:

Patient Label

**ACUTE CARE** 

	SEPSIS PATHWAY	Sex:	mented if patient details handwritten
	Preferred therapy	Immediate non-severe or delayed non-severe penicillin hypersensitivity	Immediate severe (anaphylaxis) or delayed severe penicillin hypersensitivity (SJS, TEN, DRESS, interstitial nephritis)
		Dry Season	
FEBRILE NEUTROPENIA WITH SEPSIS/SEPTIC SHOCK	Gentamicin 4 to 7mg/kg IV as a single dose then review (refer to box 1)  AND  Piperacillin/Tazobactam 4.5g IV 6 hourly #  AND  Vancomycin loading dose 25 to 30 mg/kg IV  THEN REGULAR Vancomycin IV	Gentamicin 4 to 7mg/kg IV as a single dose then review (refer to box 1)  AND Ceftazidime 2g IV 8 hourly  AND Vancomycin loading dose 25 to 30mg/kg IV  THEN REGULAR Vancomycin IV  If suspected abdominal or peritoneal infection,  ADD Metronidazole 500mg IV 12 hourly	Meropenem 1g IV 8 hourly (call IFD on call first)  AND  Vancomycin loading dose 25 to 30mg/kg IV  THEN REGULAR Vancomycin IV
		Wet Season	
	Meropenem 1g IV 8 hourly AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV		
	For febrile neutropenia without sepsis/se	eptic shock refer to <b>TEHS Adult Febrile N</b>	leutropenia Guideline.
RESPIRATORY S	YSTEM		
		Dry Season	
SEVERE COMMUNITY ACQUIRED	Piperacillin/Tazobactam 4.5g IV 6 hourly #  AND Azithromycin 500mg IV 24 hourly If MRSA <sup>β</sup> suspected, ADD Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV	Meropenem1g IV 8 hourly AND Azithromycin 500mg IV 24 hourly.  If MRSA <sup>β</sup> suspected, ADD Vancomycin loading dose 25 to 30mg/kg THEN REGULAR Vancomycin IV	g IV
PNEUMONIA		Wet Season	
Requiring ICU	Meropenem 1g IV 8 hourly AND Azithromycin 500mg IV 24 hourly If MRSA <sup>β</sup> suspected, ADD Vancomycin loading dose 25 to 30mg/kg THEN REGULAR Vancomycin IV	g IV	
SEVERE		Wet and Dry Season	
COMMUNITY ACQUIRED PNEUMONIA Not requiring ICU	Gentamicin 4 to 7mg/kg IV then review ( AND Ceftriaxone 2g IV 24 hourly AND Doxycycline 100mg PO 12 hourly	(refer to box 2)	Meropenem 1g IV 8 hourly (call IFD on call first) AND Doxycycline 100mg PO 12 hourly
SEVERE HOSPITAL ACQUIRED PNEUMONIA	Piperacillin/Tazobactam 4.5g IV 6 hourly AND Vancomycin # loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV	Cefepime 2g IV 8 hourly AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV	Ciprofloxacin 400mg IV 8 hourly OR Meropenem 1g IV 8 hourly AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV
i	ADD Contemisis Ata Zana IV/	( ( ) ( )	

ADD Gentamicin 4 to 7mg IV then review (refer to box 2)



### DEPARTMENT OF **HEALTH**

**ACUTE CARE** 

Principal name:
Other name(s):
D.O.B:
HRN:
Sex:

Patient Label

ADULT SEPSIS PATHWAY		Address must be documented if	nationt details handwritten		
	Preferred therapy	Immediate non-severe or delayed non-severe penicillin hypersensitivity	Immediate severe (anaphylaxis) or delayed severe penicillin		
GENITOURINARY					
SEVERE PYELONEPHRITIS	Gentamicin 4 to 7mg/kg IV (refer to box 2) daily for 3 days dependent on renal function  AND  Cefazolin 2g IV 8 hourly  If aminoglycosides contraindicated,  USE  Ceftriaxone 2g IV 24 hourly		Gentamicin 4 to 7mg/kg IV (refer to box 2) daily for up to 3 days dependant on renal function  If aminoglycosides contraindicated, call IFD on-call.		
PELVIC INFLAMMATORY DISEASE	Ceftriaxone 2g IV 24 hourly (if septic shock or ICU Ceftriaxone 1g 12 hourly)  AND  Azithromycin 500mg IV 24 hourly  AND  Metronidazole 500mg IV 12 hourly		Gentamicin 4 to 7mg/kg IV (refer to box 2) daily for 3 days dependent on renal function  AND  Azithromycin 500mg IV 24 hourly  AND  Clindamycin 600mg IV 8 hourly		
GASTROINTESTI	NAL (GI)				
INTRA- ABDOMINAL Source Unknown	Ampicillin 2g IV 6 hourly  AND  Gentamicin 4 to 7mg/kg IV (refer to box 2) daily for 3 days dependent on renal function  AND  Metronidazole 500mg IV 12 hourly If aminoglycoside contraindicated,  USE  Piperacillin/Tazobactam 4.5g IV 6 hourly instead	Ceftriaxone 2g IV 24 hourly AND Metronidazole 500mg IV 12 hourly AND Gentamicin 4 to 7mg/kg IV (refer to box 2) daily for 3 days dependent or renal function	Clindamycin 600mg IV 8 hourly AND Gentamicin 4 to 7mg/kg IV (refer to box 2) daily for 3 days dependent on renal function		
	Consider antifungal therapy if yeast identified from deep surgical sites or involvement of upper GI, call IFD				
BONE, JOINT, SO	FT TISSUE, SKIN				
CELLULITIS	Flucloxacillin 2g IV 6 hourly OR If MRSA <sup>β</sup> suspected, USE Cefazolin 2g IV 8 hourly AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV	Cefazolin 2g IV 8 hourly If MRSA <sup>β</sup> suspected, ADD Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV	Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV		
	ADD Clindamycin 600mg IV 8 hourly if suspected toxic shock syndrome and discuss IVIG with IFD. Consider MRSA cover in presence of skin abscesses.				
Ciprofloxacin 400mg IV 8 hourly  AND  Meropenem 1g IV 8 hourly  AND  INFECTION  Call IFD  Ciprofloxacin 400mg IV 8 hourly  AND  Meropenem 1g IV 8 hourly  AND  Vancomycin loading dose 25 to 30mg/kg IV  THEN REGULAR Vancomycin IV					
	ADD Clindamycin 600mg IV 8 hourly if crocodile or shark bite				
NECROTISING FASCIITIS Call surgeon and IFD	Meropenem 1g IV 8 hourly AND Clindamycin 600mg IV 8 hourly AND Vancomycin loading dose 25 to 30mg/kg THEN REGULAR Vancomycin IV				
	If immersed in water, ADD Ciprofloxacin	400mg IV 8 hourly			

NORTHERN TERRITORY GOVERNMENT OF HEALTH		Principal name: Other name(s): D.O.B: HRN:	Patient Label	
ACUTE CARE		Sex:		ratient Laber
ADULT SEPSIS PATHWAY		Address must be documented if patient details handwritten		ent details handwritten
	Preferred therapy	Immediate non-seve delayed non-severe p hypersensitivit	enicillin	Immediate severe (anaphylaxis) or delayed severe penicillin hypersensitivity (SJS, TEN, DRESS, interstitial nephritis)
DIABETIC FOOT INFECTION	Piperacillin/Tazobactam 4.5g IV 6 hourly # AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV	Ciprofloxacin 400mg IV 8 ho AND Clindamycin 900mg IV 8 ho AND Vancomycin loading dose 29 THEN REGULAR Vancomy	urly 5 to 30mg/kg	IV
SEPTIC ARTHRITIS	Ceftriaxone 2g IV 24 hourly AND Vancomycin loading dose 25 to 30mg/kg THEN REGULAR Vancomycin IV	ı IV		Ciprofloxacin 400mg IV 12 hourly AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV
	Take diagnostic samples <b>before</b> starting essential for patients with septic arthritis Acute rheumatic fever may present as a Islander peoples.	complicated by sepsis.		
INTRAVASCULAR CATHETER RELATED SEPSIS	Piperacillin/Tazobactam 4.5g IV 6 hourly # AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV	Ceftazidime 2g IV 8 hourly <b>AND</b> Vancomycin loading dose 29 30mg/kg IV <b>THEN REGULAR</b> Vancomy		Meropenem 1g IV 8 hourly (call IFD on-call first) AND Vancomycin loading dose 25 to 30mg/kg IV THEN REGULAR Vancomycin IV
Remove line - discuss with team	Use Meropenem instead of Piperacillin/I Discuss with IFD if Candida cover requir upper gastrointestinal source or parenter	ed with septic shock/high risk		
CENTRAL NERVO	US SYSTEM		·	
	Ceftriaxone 2g IV 12 hourly			Moxifloxacin 400mg IV 24 hourly
MENINGITIS Not associated with shunts or neurological procedure Call IFD	ADD Dexamethasone 10mg IV 6 hourly  If patient has risk factors for Listeria such Benzylpenicillin 2.4g IV 4 hourly (use Tri hourly for severe penicillin allergy).  For duration of therapy refer to eTG.	n as elderly, alcohol abuse, pr	egnant and/o	or immunocompromised, ADD
	If gram-positive cocci in CSE LP not und		positive rec	ent sinusitis/otitis media or heta-lactam

### **Sepsis Resources for Health Professionals**

antibiotics ADD Vancomycin loading dose 25 to 30mg/kg IV and THEN REGULAR Vancomycin IV.

