

ED S	Sepsis	<b>MAP</b>	Less	than	<b>65</b>	<b>Adult</b>
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					1
<b>Key: Req</b> – Requisition <b>MAR</b> – Medication	Page 1 of 2	Kardey <b>Dis</b> – Discontinued		Key	Phase
		Naturex Discontinued	-		
Instructions for completing this order set  ☑ Indicates a pre-selected order. To		raw a line through it			
☐ Must tick the box for order to be		_	d		一芸
Fill in blank spaces as needed/ap	•	ked will not be implemented	1		b
- Indicates an item for consideration					Ă
					Ŋ
<b>ED Sepsis MAP Less than 65</b>	Adult				Sepsis MAP Less than 65 Adult
	<del></del>				<u> </u>
Inclusion Criteria					بخ
- MAP (Mean Arterial Pressure) less than 65 i	mmHg despite sodium chloride	0.9% 2,000 mL IV infusion <b>AI</b>	VD/OR		+
- Lactate equal to or greater than 2 mmol/L	AND/OR				25
- Evidence of organ dysfunction			•		نة
<b>Rural sites:</b> Prepare for transfer, if not alrea	idy done; For Interfacility transj	fers, Patient should be discho	arged from sending		
facility and admitted to receiving facility					4
NOTE: See "ED Management of Sepsis Algori	thm" clinical decision support a	ttached			2
Patient Care					2
✓ MAP Goal: 65 or greater <b>OR</b>			!		<u>is</u>
✓ Neurological Assessment, for altered mer	— ntal status, Q1H for 6 hours <b>THE</b>	N Q4H for 12 hours	!		d
Notify Provider Vital Signs, If SBP less than			ļ		<u>a</u>
✓ Notify Provider, If MAP less than 65 mmH			ļ		
Peripheral IV Insertion, Insert two large b	~	not already done	!		ED
☐ Arterial Line Insertion	ore iv 3 (10 gauge of larger), if	not already dolle	ļ		ш
			ļ		
☐ Blood Gases Arterial POC, ONCE			1		
Urinary Catheter Insertion, Indwelling, wi	th urometer		1		
☐ Intake and Output, Q1H					
Laboratory			i		
Hematology					
☐ Complete Blood Count and Differential, B	lood. STAT				
☐ INR, Blood, <b>STAT,</b> Anticoagulant:				 	
Chemistry - Cross out lactate level STAT if already drawn	n				
☐ Lactate Level, Blood, <b>STAT</b>	,			!	
	tial la stata augustau thau 2 maga	1/1		; ; ;	
- A repeat lactate in 4 hours is indicated if ini	_	I/L		 	
☑ Lactate Level, Blood, Timed Study in 4 ho					
☐ Electrolytes and Creatinine Panel, Blood,	STAT			! ! !	
$\square$ Glucose Level Random, Blood, <b>STAT</b>				i I I	
$\square$ Calcium Ionized Level, Blood, <b>STAT</b>					
$\square$ ALT, Blood, <b>STAT</b>				i ! !	
☐ GGT, Blood, <b>STAT</b>				! ! !	
☐ Lipase Level, Blood, <b>STAT</b>					
☐ Bilirubin Total, Blood, <b>STAT</b>				! !	
☐ Venous Blood Gas (VBG), <b>STAT</b>				! !	
☐ Venous Blood Gas (VBG), Recurring Q2H f	for 6 h			! ! !	
Tellous blood dus (Vbd), Neculting Q211					
Signature, Designation	College License #	Date	Time Page :	1/2	



Demographics

ED	Sepsis	MAP	Less	than	65	Adult
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	Page 2 of 2				
Key: Req – Requisition MAR – Medication Adm	_	- Kardex <b>Dis</b> – Discor	ntinued	Key	Phase
- HIV Serology, if not done within 5 years					
☐ HIV Serology, Blood, ASAP					븍
Microbiology					q
☐ Urine Culture, Urine, <b>STAT</b>					Ă
☐ Blood Culture x 2, Blood, <b>STAT</b>					Ŋ
Body Fluid and Stool Tests					9
$\hfill \square$ Macroscopic Urinalysis with Culture if Positive,	Urine Midstream, <b>STAT</b>				ב
Transfusion Medicine					μ
☐ Group and Screen, Blood, <b>STAT</b> (inc. AbSc Gel &	ABORh (D))				ED Sepsis MAP Less than 65 Adult
Diagnostic Imaging					بة
$\hfill \square$ HH ECG Electrocardiogram, <b>STAT,</b> Suspected se	psis				
$\square$ XR Chest 2 Views, ASAP, Suspected sepsis					4
- If patient transport is not possible, select portable	option				2
$\square$ XR Chest AP/PA 1 View, ASAP, Portable, Suspec	ted sepsis				<b>4</b>
Continuous Infusions					<u>.is</u>
IV FLUID BOLUS					ğ
- Balanced crystalloids (Ringers Lactate) is preferre	d over sodium chloride 0	.9%; See American Jou	ırnal of Respiratory an	d	e e
Critical Care Medicine: Balanced Crystalloids vers	us Saline in Sepsis. A Seco	ondary Analysis of the	SMART Clinical Trial		0)
- "Surviving Sepsis Campaign" guidelines suggest a	n initial 30 mL/kg fluid b	olus then reassessmer	nt of volume status		品
- In case of hyperkalemia, consider changing IV bol	us to sodium chloride 0.9	9%			
☐ Ringers Lactate IV Bolus, 30 mL/kg/dose x		ose, IV, ONCE, INITIAL	Dose. Max Dose: 2,00	0 mL	
Infuse over 30 minutes then Provider to reasse	ss volume status				
OR  ☐ Ringers Lactate IV Bolus,mL, IV, AS	DIRECTED, PRN for MAP	ess than 65 mmHg, in	fuse over 15 min		
IV MAINTENANCE THERAPY					
☐ Ringers Lactate IV at 200 mL/h <b>OR</b> ☐	mL/h				
CONTINUOUS IV MEDICATIONS					
- May use peripheral IV for norepinephrine adminis	stration until central line	available			
- May modify norepinephrine concentration to dou			where indicated		
$\square$ norepinephrine 16 mg / sodium chloride 0.9% 2	250 mL, IV, start at <b>0.1</b> m	cg/kg/min			
Nurse/Pharmacist to modify ordered diluent an	d/or concentration as inc	dicated by clinical cond	dition and IV Monogra	ph	
RANGE: 0 to 1.5 mcg/kg/min, titrate to MAP Go	al; Peripheral IV may be	used until central line	available		
Medications					
☑ Sepsis Antibiotics (Module) – Provider to comp	lete orders, see attached	i			
Daninatan					
Respiratory	0				
Oxygen Therapy, Reason for treatment: Improve patients diagnosed with COPD	e oxygenation, litrate O	<sub>2</sub> level to maintain Spc	J <sub>2</sub> at 92% <b>OR</b> 88 – 92%	otor	
Consults/Referrals					
- Physician to physician communication is required	for all consult to speciali	st orders			
$\hfill\square$ Consult to Critical Care, Inpatient, Sepsis with N	MAP less than 65				
Signature, Designation	College License #	Date	Time	Page 2/2	

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Sepsis MAP Less than 65/MD/02-22/v4



Page 1 of 4	I I	
Key: Req – Requisition MAR – Medication Administration Record K – Kardex Dis – Discontinued	Key	Pha
Instructions for completing this order set:		
☑ Indicates a pre-selected order. To delete a pre-selected order, draw a line through it	į	
☐ Must tick the box for order to be implemented. Orders not checked will not be implemented	į	<u> </u>
Fill in blank spaces as needed/appropriate		E
- Indicates an item for consideration by Provider; is NOT an order		7
· · · · · · · · · · · · · · · · · · ·		5
Sepsis Antibiotics (Module)		2
Depois Antibiotics (Woddie)		
aboratory	İ	ر
Order blood cultures STAT, if not already done		+
		2.
Blood Cultures x 2, <b>STAT</b> , draw blood cultures before antibiotics are administered		2
nti-infectives		Sensis Antibiotics (Module)
		2
Medication Communication, Administer initial antimicrobials AFTER blood cultures have been drawn <b>AND</b> within		
1 hour of arrival	İ	U
** Refer to Vancomycin and Renal Impairment Tables (attached) for doses and frequencies **		U
nere to tune injuntant neral injuntence tubies (actualled) to tubies and nequences		_ d
SUSPECTED COMMUNITY-ACQUIRED PNEUMONIA:		
- If pneumonia suspected, choose both cefTRIAXone and azithromycin <b>OR</b> cefTRIAXone and doxycycline	-	
cefTRIAXone, 2 g, Soln-Inj, IV, Q24H, first dose NOW, use separate IV line if Lactated Ringers also infusing <b>AND</b>		
azithromycin inj, 500 mg, Soln-Inj, IV, Q24H, first dose NOW		
OR	<u> </u>	
☐ cefTRIAXone, 2 g, Soln-Inj, IV, Q24H, first dose NOW, use separate IV line if Lactated Ringers also infusing <b>AND</b>	-	
doxycycline, 100 mg, Cap, oral, BID, first dose NOW		
OR	1	
- If community-acquired pneumonia suspected in patients with cephalosporin allergy or severe delayed skin reactions		
to penicillins (e.g. Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN), DRESS)		
☐ moxifloxacin, 400 mg, Soln-Inj, IV, Q24H, first dose NOW		
- Hoalioadell, 400 lig, 30ll lilj, IV, Q24ti, lilst dose NOVV	-	
	<u> </u>	
SUSPECTED COMPLICATED PNEUMONIA:	<del>-  </del>	
- If health-care associated, immunocompromised or drug resistance risk factors		
$\square$ piperacillin-tazobactam, 4.5 g, Soln-Inj, IV, Q6H, first dose NOW		
AND		
vancomycin inj,mg, Soln-Inj, IV, for 1 dose, NOW, LOADING DOSE <b>THEN</b>		
vancomycin inj,mg, Soln-Inj, IV, QH, MAINTENANCE DOSE; High Target Trough; Place order for		
trough level to be drawn 30 minutes prior to 3 <sup>rd</sup> or 4 <sup>th</sup> dose (prior to morning or mid-day dose preferred)		
OR		
- If complicated pneumonia suspected in patients with immediate or delayed severe penicillin allergy (e.g. anaphylaxis,		
Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN), DRESS		
□ meropenem, 1 g, Soln-Inj, IV, Q8H		
AND		
vancomycin inj,mg, Soln-Inj, IV, for 1 dose, NOW, LOADING DOSE <b>THEN</b>		
vancomycin inj,mg, Soln-Inj, IV, <b>Q</b> H, MAINTENANCE DOSE; High Target Trough; Place order for		
trough level to be drawn 30 minutes prior to 3 <sup>rd</sup> or 4 <sup>th</sup> dose (prior to morning or mid-day dose preferred)		
Company to the contract of the	4	-



Demographics

# **Sepsis Antibiotics (Module)**

Page 2 of 4  Yey: Req – Requisition MAR – Medication Administration Record K – Kardex Dis – Discontinued	Key	Pha
SUSPECTED NON-PURULENT CELLULITIS:		
ceFAZolin, 2 g, Soln-Inj, IV, Q8H, NOW, Refer to table for renal impairment dosing <b>AND</b> clindamycin inj, 900 mg, Soln-Inj, IV, Q8H	i	(oli-
OR		
- For patients with cephalosporin allergy or severe delayed skin reactions to penicillins e.g. Stevens-Johnson Syndrome (SJS), toxic epidermal necrolysis (TEN), DRESS	1	2
<ul> <li>vancomycin inj,mg, Soln-Inj, IV, for 1 dose, NOW, LOADING DOSE THEN</li> <li>vancomycin inj,mg, Soln-Inj, IV, QH, MAINTENANCE DOSE; High Target Trough; Place order for trough level to be drawn 30 minutes prior to 3<sup>rd</sup> or 4<sup>th</sup> dose (prior to morning or mid-day dose preferred)</li> <li>AND</li> </ul>		(cl.:koW) soitistick sizes
clindamycin inj, 900 mg, Soln-Inj, IV, Q8H		÷.
SUSPECTED COMPLICATED SKIN AND SOFT TISSUE INFECTION:		٥
- For Purulent Cellulitis, Diabetic Foot Infection, or if risk of Antibiotic Resistant Organisms	<del> </del>	
□ piperacillin-tazobactam, 3.375 g, Soln-Inj, IV, Q6H, first dose NOW  AND		פֿ
vancomycin inj,mg, Soln-Inj, IV, for 1 dose, NOW, LOADING DOSE <b>THEN</b>		
vancomycin inj,mg, Soln-Inj, IV, QH, MAINTENANCE DOSE; High Target Trough; Place order for trough level to be drawn 30 minutes prior to 3 <sup>rd</sup> or 4 <sup>th</sup> dose (prior to morning or mid-day dose preferred)		
OR	1	
- For patients with immediate or severe delayed skin reactions to penicillins e.g. Stevens-Johnson Syndrome (SJS), toxic epidermal necrolysis (TEN), DRESS		
☐ meropenem, 1 g, Soln-Inj, IV, Q8H  AND		
vancomycin inj,mg, Soln-Inj, IV, for 1 dose, NOW, LOADING DOSE <b>THEN</b> vancomycin inj,mg, Soln-Inj, IV, <b>QH</b> , MAINTENANCE DOSE; High Target Trough; Place order for trough level to be drawn 30 minutes prior to 3 <sup>rd</sup> or 4 <sup>th</sup> dose (prior to morning or mid-day dose preferred)		
	<del> </del>	
SUSPECTED NECROTIZING SKIN AND SOFT TISSUE INFECTION:	<u> </u>	
□ piperacillin-tazobactam, 4.5 g, Soln-Inj, IV, Q6H, first dose NOW <b>AND</b> clindamycin inj, 900 mg, Soln-Inj, IV, Q8H, first dose NOW		
AND  vancomycin inj,mg, Soln-Inj, IV, for 1 dose, NOW, LOADING DOSE THEN		
vancomycin inj,mg, Soln-Inj, IV, QH, MAINTENANCE DOSE; High Target Trough; Place order for trough level to be drawn 30 minutes prior to 3 <sup>rd</sup> or 4 <sup>th</sup> dose (prior to morning or mid-day dose preferred)		
OR	4	
- For patients with immediate or severe delayed skin reactions to penicillins e.g. Stevens-Johnson Syndrome (SJS), toxic epidermal necrolysis (TEN), DRESS		
<ul> <li>meropenem, 1 g, Soln-Inj, IV, Q8H AND</li> <li>clindamycin inj, 900 mg, Soln-Inj, IV, Q8H, first dose NOW</li> <li>AND</li> </ul>		
vancomycin inj,mg, Soln-Inj, IV, for 1 dose, NOW, LOADING DOSE <b>THEN</b> vancomycin inj,mg, Soln-Inj, IV, <b>QH</b> , MAINTENANCE DOSE; High Target Trough; Place order for		
trough level to be drawn 30 minutes prior to 3 <sup>rd</sup> or 4 <sup>th</sup> dose (prior to morning or mid-day dose preferred)	1	



Sepsis Antibiotics	(Module)
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ey: Req – Requisition MAR – Medication Administration Record K – Kardex Dis – Discontinued	Key
SUSPECTED GI INFECTION:	1
□ piperacillin-tazobactam, 3.375 g, Soln-Inj, IV, Q6H, first dose NOW	<u> </u>
OR	<u> </u>
- For patients with <b>risk of antibiotic resistance OR</b> with immediate Type 1 or severe delayed penicillin allergy (e.g.	1
anaphylaxis, Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN), DRESS	
☐ imipenem-cilastin, 500 mg, Soln-Inj, IV, Q6H, first dose NOW	<u> </u>
SUSPECTED URINARY TRACT INFECTION:	
$\square$ cefTRIAXone, 2 g, Soln-Inj, IV, Q24H, first dose NOW, not compatible with Lactated Ringers	
OR	
For patients with <b>Complicated Urinary Tract Infection</b> (e.g. recent instrumentation, recurrent infection, immunocompromised, risk of drug resistant bacteria <b>OR</b> those with cephalosporin allergy or severe delayed reactions to penicillin e.g. Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN), DRESS  imipenem-cilastin, 500 mg, Soln-Inj, IV, Q6H, first dose NOW	
SUSPECTED MENINGITIS OR ENCEPHALITIS:	
- Start dexamethasone PRIOR TO or with first dose of antibiotic; Discontinue if bacterial meningitis is ruled out	
dexamethasone inj, 0.15 mg/kg/dose xkg =mg/dose, Soln-Inj, IV, Q6H, for 8 doses Start PRIOR to or with first dose of antibiotic	
AND	
☐ cefTRIAXone, 2 g, Soln-Inj, IV, Q12H, first dose NOW, use separate IV line if Lactated Ringers also infusing	1
AND	
vancomycin inj,mg, Soln-Inj, IV, for 1 dose, NOW, LOADING DOSE <b>THEN</b>	
vancomycin inj,mg, Soln-Inj, IV, QH, MAINTENANCE DOSE; High Target Trough; Place order for trough level to be drawn 30 minutes prior to 3 <sup>rd</sup> or 4 <sup>th</sup> dose (prior to morning or mid-day dose preferred)	
AND	
- If risk factors for Listeria present e.g. pregnancy, age greater than 50, immunocompromised, diabetes, ESRD	1
then ADD ampicillin	
□ ampicillin, 2 g, Soln-Inj, IV, Q4H, first dose NOW	
OR	
- If severe allergy e.g. anaphylaxis to EITHER cephalosporins or ampicillin	
□ meropenem, 2 g, Soln-Inj, IV, Q8H	
AND	:1
AND vancomycin inj,mg, Soln-Inj, IV, for 1 dose, NOW, LOADING DOSE <b>THEN</b>	
AND	
AND  vancomycin inj,mg, Soln-Inj, IV, for 1 dose, NOW, LOADING DOSE <b>THEN</b> vancomycin inj,mg, Soln-Inj, IV, <b>QH</b> , MAINTENANCE DOSE; High Target Trough; Place order for	
AND vancomycin inj,mg, Soln-Inj, IV, for 1 dose, NOW, LOADING DOSE THEN vancomycin inj,mg, Soln-Inj, IV, QH, MAINTENANCE DOSE; High Target Trough; Place order for trough level to be drawn 30 minutes prior to 3 <sup>rd</sup> or 4 <sup>th</sup> dose (prior to morning or mid-day dose preferred)	



				1	1
<b>Key: Req</b> – Requisition <b>MAR</b> – Medication Ac	Page 4 of 4	Kardex <b>Dis</b> – Disc	ontinued	Кеу	Phase
SUSPECTED COMPLICATED CNS INFECTIO					
					(d)
- If recent neurosurgery or shunt-related infec	tion				=
meropenem, 2 g, Soln-Inj, IV, Q8H  AND					듁
vancomycin inj,mg, Soln-Inj, IV, f	or 1 dose. NOW. I OADING	DOSE <b>THEN</b>			Ŏ
vancomycin inj,mg, Soln-Inj			arget Trough; Place orde	er 📗	$\geq$
for trough level to be drawn 30 minutes					
					CS
UNKNOWN INFECTION SOURCE:					Sepsis Antibiotics (Module)
☐ piperacillin-tazobactam, 4.5 g, Soln-Inj, IV,	O6H first dose NOW			<del>-                                    </del>	<b>D</b> :
AND	Qori, mist dose ivo vv				臣
vancomycin inj,mg, Soln-Inj, IV, f	or 1 dose. NOW. LOADING	DOSE <b>THEN</b>			
vancomycin inj,mg, Soln-Inj			get Trough; Place order f	or	10
trough level to be drawn 30 minutes pr					Sis
OR					ä
- For patients with drug-resistant factors <b>OR</b> v	vith severe penicillin allergy	e.g. anaphylaxis, S	tevens-Johnson Syndrom	e	Se
(SJS), toxic epidermal necrolysis (TEN), DRESS	5				
☐ meropenem, 1 g, Soln-Inj, IV, Q8H				1	
AND					
vancomycin inj,mg, Soln-Inj, IV, f					
vancomycin inj,mg, Soln-Inj trough level to be drawn 30 minutes pr				or	
□ Consult to Clinical Pharmacist, Inpatient, Vand	comycin monitoring and do	sing *where availal	ole		
Signature, Designation	College License #	 Date	Time P	rage 4/4	4



#### Dosing Guidelines for vancomycin Empiric Intravenous Antibiotic Dosing for Renal Impairment

#### **Clinical Decision Support**

**Dosing Guidelines for vancomycin** 

ACTUAL Body Weight (kg)	LOADING DOSE (25 mg/kg)	MAINTENANCE DOSE (15 mg/kg)
45 to 55	1250 mg	750 mg
56 to 65	1500 mg	1000 mg
66 to 75	1750 mg	1000 mg
76 to 85	2000 mg	1250 mg
86 to 95	2250 mg	1250 mg
96 to 105	2500 mg	1500 mg
106 to 115	2750 mg	1500 mg
116 to 125	3000 mg	1750 mg

Greater than 125 kg: see "Obesity" below; max recommended loading dose 3000 mg; max recommended maintenance dose 2000 mg

- Use algorithm to determine initial dosing interval based on clinical indication, age, and serum creatinine
- For the following infections a higher trough should be targeted (15 to 20 mg/L): bacteremia, central nervous system infection, deep-seated or sequestered infection (eg abscess), endocarditis, osteomyelitis, MRSA pneumonia

	LOW-TARGET 10 to 15 mg/L INITIAL DOSING INTERVAL (hours)					INITIAL DOSING INTERVAL (hours) INITIAL DOSING INTERVAL (hours)								
SCr	Age Gloup (years)						SCr Age Group (years)							
mcmol/ L	20 - 29	30-39	40-49	50-59	60- 69 <sup>b</sup>	70- 79 <sup>b</sup>	mcmol /L	20- 29	30- 39	40- 49	50-59	60- 69 <sup>b</sup>	70- 79 <sup>b</sup>	80- 89 <sup>b</sup>
40-60	8	8	12	12	12	18	40-60	6	6-8ª	8	8	8-12 <sup>a</sup>	12	12
61-80	8	12	12	12	18	18	61-80	8	8	8-12 <sup>a</sup>	12	12	12	12- 18 <sup>a</sup>
81-100	12	12	12	18	18	18	81-100	12	12	12	12	12- 18 <sup>a</sup>	18	18
101-120	12	12	18	18	18	24	101- 120	12	12	12- 18 <sup>a</sup>	18	18	18	18
121-140	12	18	18	18	24		121- 140	12	18	18	18	18	18- 24 <sup>a</sup>	
141-160	18	24	24	24			141- 160	18	18	18	18-24 <sup>a</sup>	24		
161-180	24	24					161- 180	18- 24 <sup>a</sup>	24	24	24			
181-200	24						<sup>a</sup> If more dosing ir		sive the	rapy is d	esired, se	lect more	e frequ	ent

<sup>&</sup>lt;sup>b</sup> Use clinical judgment as SCr may not accurately reflect renal function in elderly patients with low muscle mass

- Intervals of q18h are acceptable, and may be required in some pt to achieve appropriate trough concentrations. In some situations it may be easier to dose every 24h and increase the dose accordingly (eg 1g IV q18h may be changed to 1.25 to 1.5g IV q24h)
- Shaded boxes: patients have unstable and/or reduced renal function, and the nomogram may not be as predictive; recommend contacting a clinical pharmacist for assistance with dosing and interpretation of levels

#### Obesity:

- Recommend max loading dose 3000 mg; recommend max empiric maintenance dose 2000 mg
- Consider shortening dosing interval due to increased clearance in obese patients
- Consider trough before 3<sup>rd</sup> dose (may not be at steady state yet, but monitoring for possible accumulation)



#### Dosing Guidelines for vancomycin Empiric Intravenous Antibiotic Dosing for Renal Impairment

#### **Clinical Decision Support**

# Empiric Intravenous Antibiotic Dosing for Severe Sepsis/Septic Shock with Renal Impairment

Calculate first dose as per normal kidney function rather than waiting to calculate creatinine clearance or review eGFR.

Subsequent doses should be based on renal function as below

DRUG	eGFR greater than 50 mL/min		eGFR between 10 to 50 mL/min		eGFR less than 10 mL/min	
	Dose	Interval	Dose	Interval	Dose	Interval
ampicillin	2 g	q4h	2 g	q4 to 6h	2g	q6 to 8h
ceFAZolin	2 g	q8h	2 g	q8 to 12h	2g	q24h
ciprofloxacin	400 mg	q12h	200 to 400 mg	q12 to 24h	200 mg	q24h
cotrimoxazole (Doses based on trimethoprim component)	20 mg/kg/day	Divided q6h	10 to 20 mg/kg/day	Divided q12h	10 mg/kg	q24h
imipenem	500 mg	q6h	250 to 500 mg	q6 to 8h	250 mg	q12h
meropenem	1 g	q8h	1 g	q12h	500 mg	q24h
piperacillin- tazobactam	4.5 g	q6h	3.375 to 4.5 g	q6 to 8h	2.25 g	q6 to 8h

The following antibiotics do not require an adjustment for renal function: azithromycin; cefTRIAXone; clindamycin; metroNIDAZOLE; moxifloxacin

- This guide is a companion reference to the Sepsis antibiotic dosing guideline
- This guide is not a general reference on dosing antibiotics for renal impairment
- This guide does not include dosing for dialysis patients please call pharmacy or contact nephrologist
- This guide is intended for use in adults only
- Where a range of dose or interval is provided, the regimen decided should be based on patient severity and degree of renal impairment within that range. Please dose to the closest available vial size
- This is a guide only based on commonly referenced sources the clinician may elect to be more or less aggressive based on other patient factors

#### References:

Lexi-Comp Online <a href="http://online.lexi.com/crlsql/servlet/crlonline">http://online.lexi.com/crlsql/servlet/crlonline</a> Accessed June 2011

Micromedex 2.0 <a href="http://www.thomsonhc.com/micromedex2/librarian">http://www.thomsonhc.com/micromedex2/librarian</a> Accessed June 2011

Drug Prescribing in Renal Failure: Dosing Guidelines for Adults and Children, 5<sup>th</sup> Ed (2007)

<a href="http://online.statref.com/TOC/TOC.aspx?SessionId=15473F5SJIWRVRYM">http://online.statref.com/TOC/TOC.aspx?SessionId=15473F5SJIWRVRYM</a> Accessed June 2011

The Sanford guide to antimicrobial therap, 42<sup>nd</sup> Ed (2012)

# Adult sepsis guideline algorithm - ED and Inpatient





