

BUNDLE

HOUR ONE BUNDLE: INITIAL RESUSCITATION FOR SEPSIS AND SEPTIC SHOCK (BEGIN IMMEDIATELY):

- 1) Measure lactate level.*
- 2) Obtain blood cultures before administering antibiotics.
- 3) Administer broad-spectrum antibiotics.
- Begin rapid administration of 30ml/kg crystalloid for hypotension or lactate ≥4 mmol/L.
- 5) Apply vasopressors if hypotensive during or after fluid resuscitation to maintain a mean arterial pressure ≥ 65 mm Hg.

*Remeasure lactate if initial lactate elevated (> 2mmol/L).

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CMS bundle

Within 3 hours:

- Lactate
- Blood cultures before abx
- Broad spectrum abx (beta lactam before vanc)
- Initiation of fluid resuscitation
 - 30ml/kg if the patient has hypotension or lactate >-4
 - 30ml/kg IBW if BMI > 30

Within 6 hours

- Repeat lactate if the initial lactate > 2
- Initiation of vasopressors if MAP still < 65 or sbp<90
- Complete a .sepsisexam

UNC Sepsis Bundle Order Set

Order Sets	Clear All Orders
Adult Sepsis Bundle ♣ Personalize ▼ 🌣	
- UNC Healthcare Code Sepsis Website	
▼ Adult Sepsis Bundle	
▼IV Fluid Bolus Orders	
Sepsis Fluid Resuscitation	
▼Adult Sepsis Bundle Adult Sepsis Bundle (UNC/HBR)	
▼ Antibiotics by Source of Infection	
▶ Immunocompromised —	Click for more
▶ Intra-abdominal	Click for more
Meningitis —	Click for more
Pneumonia Community Acquired	Click for more
▶ Pneumonia Hospital-Acquired or Healthcare-Associated	Click for more
Skin and Soft Tissue	Click for more
▶ Unknown —	Click for more
Urinary Tract	Click for more

▼ Ad	lult Sepsis Bundle
▼]	IV Fluid Bolus Orders
	Sepsis Fluid Resuscitation
	Lactated ringers is recommended for large volume fluid resuscitation in patients with critical illness.
	For patients with a BMI > 30, dose fluids by Ideal Body Weight (IBW).
	Use Lactated Ringer solution with caution in patients with clinically significant hyperkalemia or brain injury.
	☐ lactated ringers 30 mL/kg bolus 30 mL/kg, Intravenous, Administer over 20 Minutes, Once, STAT
	sodium chloride 0.9% (NS) 30 mL/kg bolus 30 mL/kg, Intravenous, Administer over 20 Minutes, Once, STAT
	lactated ringers 30 mL/kg bolus (if patient BMI > 30) 30 mL/kg (Ideal), Intravenous, Administer over 20 Minutes, Once, Use patient's Ideal Body Weight if BMI > 30., STAT
	sodium chloride 0.9% (NS) 30 mL/kg bolus (if patient BMI > 30) 30 mL/kg (Ideal), Intravenous, Once, Use patient's Ideal Body Weight if BMI > 30., STAT

sodium chloride 0.9% (NS) bolus
1,000 mL, Intravenous, Administer over 30 Minutes, Once, Hang bag to gravity and allow fluids to run as fast as possible., STAT

1,000 mL, Intravenous, Administer over 30 Minutes, Once, Hang bag to gravity and allow fluids to run as fast as possible., STAT

☐ lactated ringers bolus

▼ Adult Sepsis Bundle
▼ IV Fluid Bolus Orders
✓ Sepsis Fluid Resuscitation
Lactated ringers is recommended for large volume fluid resuscitation in patients with critical illness. For patients with a BMI > 30, dose fluids by Ideal Body Weight (IBW). Use Lactated Ringer solution with caution in patients with clinically significant hyperkalemia or brain injury.
✓ lactated ringers bolus 1,944 mL 1,944 mL (30 mL/kg × 64.8 kg), Intravenous, Administer over 20 Minutes, Once, today at 1100, For 1 dose STAT
sodium chloride 0.9% (NS) 30 mL/kg bolus 30 mL/kg, Intravenous, Administer over 20 Minutes, Once, STAT
☐ lactated ringers 30 mL/kg bolus (if patient BMI > 30) 30 mL/kg (Ideal), Intravenous, Administer over 20 Minutes, Once, Use patient's Ideal Body Weight if BMI > 30., STAT
sodium chloride 0.9% (NS) 30 mL/kg bolus (if patient BMI > 30) 30 mL/kg (Ideal), Intravenous, Once, Use patient's Ideal Body Weight if BMI > 30., STAT

✓ Adult Sepsis Bundle (UNC/HBR)
Administer antibiotics AFTER blood culture obtained if possible. Antibiotic orders can be found in the Antibiotics by Source of Infection section of the order set. 1) The 2nd Blood Gas Critical Care Panel - Venous or Arterial <u>must be entered by Nursing</u> for 1 HR after the first Lab. 2) Edit the time for the 2nd POCT Venous Blood Gas or POCT Arterial Blood Gas to be 1 HR after the first POCT. (Must Enter a Specific Time.)
✓ Notify Pharmacy of sepsis patient STAT, Once, First occurrence today at 1043 Notify the inpatient pharmacy immediately of Adult Code Sepsis. Provide MRN and antibiotic ordered.
✓ Cardiac Monitor STAT, Until discontinued, starting today at 1043, Until Specified Indication: Risk for physiological instability
✓ Oxygen sat continuous monitoring STAT, Until discontinued, starting today at 1043, Until Specified
☐ Nursing oxygen orders / instructions
✓ Insert peripheral IV STAT, Once, First occurrence today at 1043 PIV Details: IV Access at all times Confirm patency of existing line.
 ✓ Blood Culture STAT, First occurrence today at 1043 Draw before administering any antibiotic if possible. Blood to be drawn by: Nurse Blood
 ✓ Blood Culture STAT, First occurrence today at 1043 Draw from different site than culture #1 before administering any antibiotic. Blood to be drawn by: Nurse Blood
✓ Comprehensive Metabolic Panel ☑ Add to specimen collected 48m ago? STAT, First occurrence today at 1043 New collection
✓ CBC w/ Differential ☑ Add to specimen collected 48m ago? STAT, First occurrence today at 1043

Immunocompromised	Click for mor
▼ Intra-abdominal	
Primary Therapy is piperacillin-tazobactam (Zosyn) [OR cefepime (Maxipime) AND metronidazole (Flagyl)]. If at REX, Primary Therapy vancomycin AND metronidazole (Flagyl)]. *** If infection is healthcare-associated, add vancomycin to piperacillin-tazobactam (Zosyn).** Choose aztreonam (Azactam) AND metronidazole (Flagyl) AND vancomycin for SEVERE beta-lactam allergy. Replace vancomycin with daptomycin (Cubicin) if patient is allergic to vancomycin.	py is piperacillin-tazobactam (Zosyn) [OR cefepime (Maxipime) AND
piperacillin-tazobactam (and vancomycin if indicated) (UNC/CHT/PRDH/CLDH/JHH/JHCH/NSHH/WAYH)	
cefepime AND vancomycin AND metronidazole (UNC/CHT/PRDH/CLDH/JHH/JHCH/NSHH/WAYH)	
aztreonam AND vancomycin AND metronidazole (daptomycin if allergic to vanc) (UNC/CHT/PRDH/CLDH/JHH/NSHH/WAYH)	
Meningitis —	Click for mo
Pneumonia Community Acquired	Click for mo
Pneumonia Hospital-Acquired or Healthcare-Associated	Click for mo
Skin and Soft Tissue —	Click for mo
Unknown —	Click for mo
▶ Urinary Tract ────────────────────────────────────	Click for mo

Order Set w/ Compliance

Order Set Utilization and Calculated CMS Bundle Compliance, January 2019 – June 2020

All Epic@UNC Entities, IP and ED

 There is a strong, consistent correlation between order set utilization (nursing and provider), and calculated CMS bundle compliance



Order Set w/ Mortality Index & Rate

Order Set Utilization and Mortality: January 2019 – May(Index), June(Rate) 2020

All Epic@UNC Entities, IP and ED

