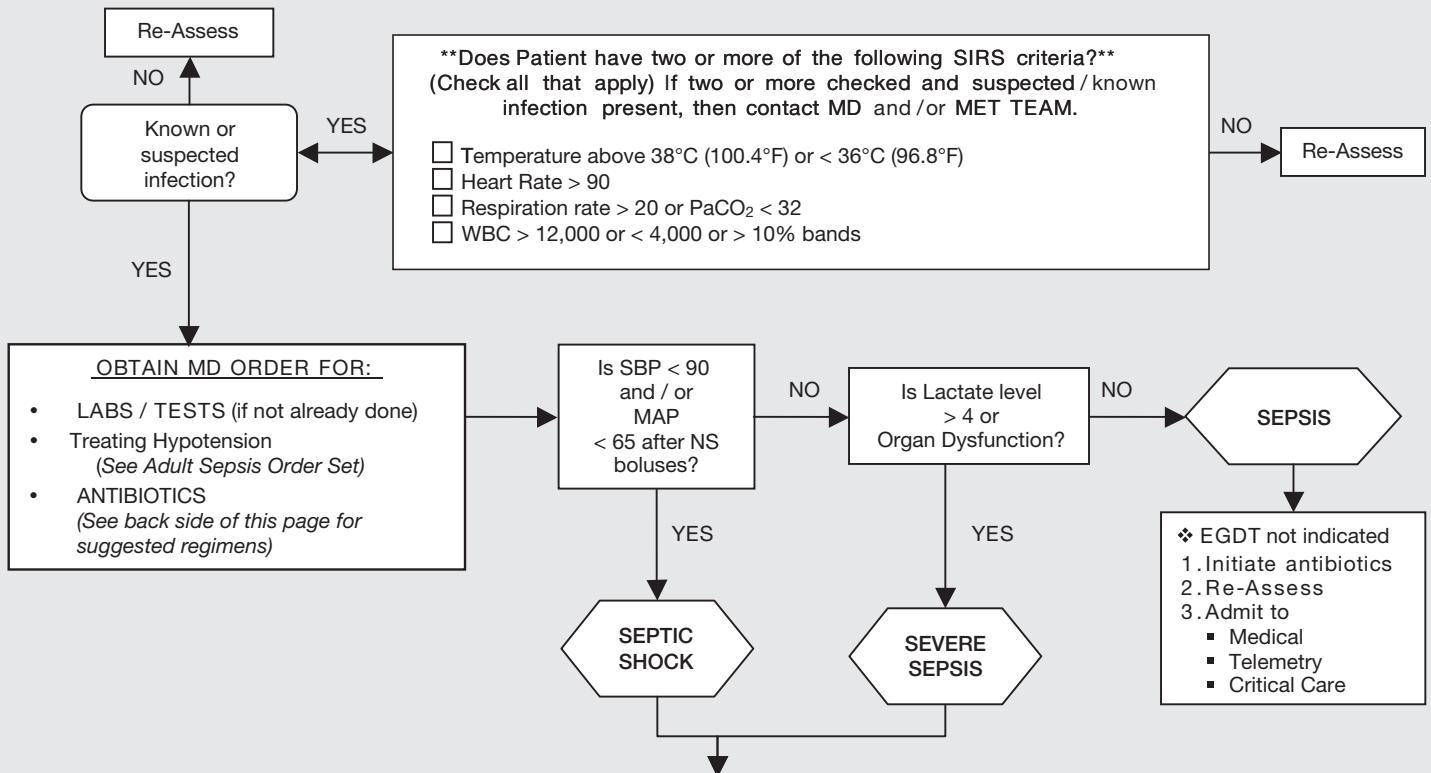
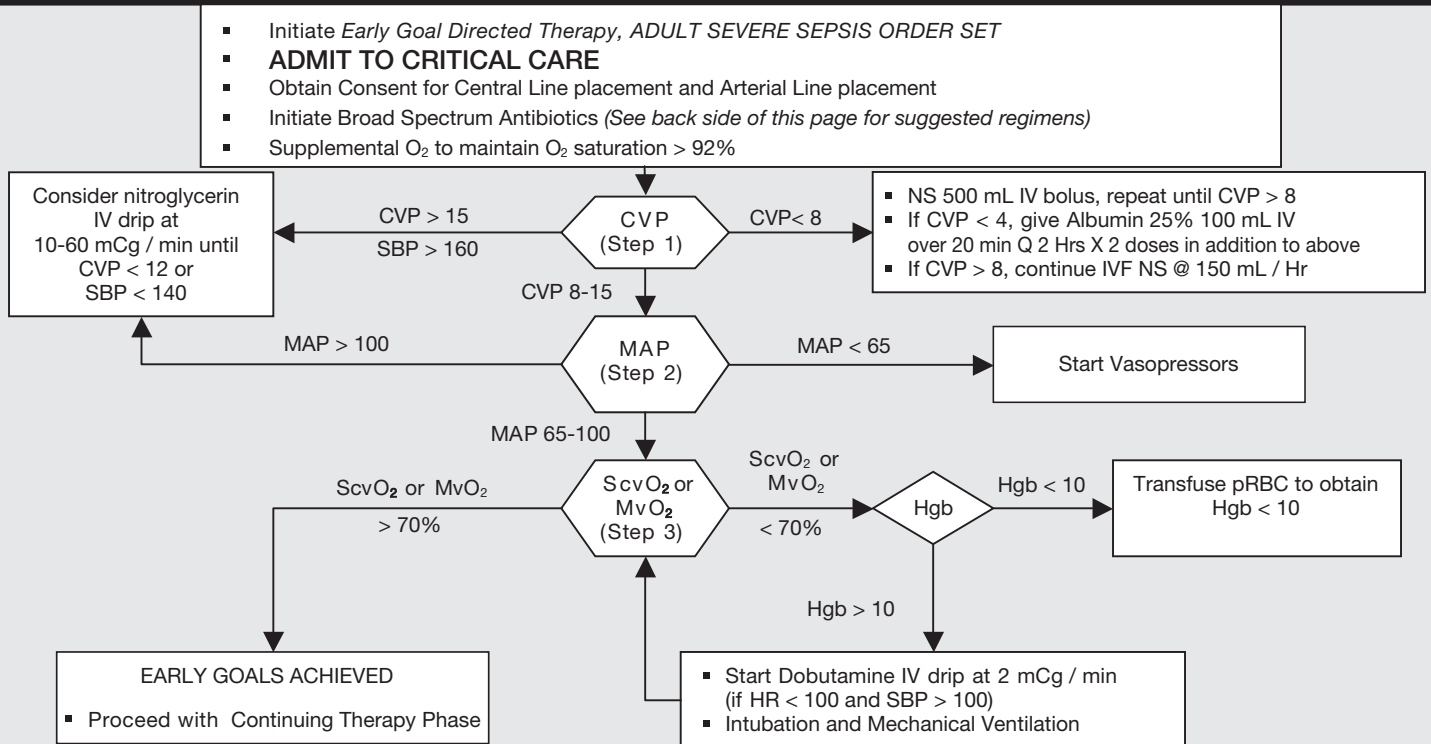


INITIAL ASSESSMENT AND IDENTIFICATION



EARLY GOAL DIRECTED THERAPY (EGDT)



ADULT SEVERE SEPSIS REFERENCE TOOL

PATIENT ID _____

Suggested Initial Empiric Anti-infective Therapy for Patients with a Diagnosis of Sepsis

Source of Infection	First-line	Second-line (PCN allergy)†
Unknown Origin	Zosyn 4.5 Gm IV Q 6 Hrs + Tobramycin 7 mg / Kg IV X 1, then per Rx ± Vancomycin* 20 mg / Kg IV X 1, then per Rx	Ciprofloxacin 400 mg IV Q 8 Hrs + Tobramycin 7 mg / Kg IV X 1, then per Rx ± Vancomycin* 20 mg / Kg IV X 1, then per Rx
Community-acquired Pneumonia	Ceftriaxone 1 Gm IV Q 24 Hrs + Azithromycin 500 mg IV Q 24 Hrs If ICU: Ceftriaxone 2 Gm IV Q 24 Hrs + Azithromycin 500 mg IV Q 24 Hrs ± Vancomycin* 20 mg / Kg IV X 1, then per Rx (may substitute Linezolid 600 mg IV Q 12 Hrs)	Levofloxacin 750 mg IV Q 24 Hrs If ICU: Levofloxacin 750 mg IV Q 24 Hrs + Aztreonam 2 Gm IV Q 8 Hrs ± Vancomycin* 20 mg / Kg IV X 1, then per Rx (may substitute Linezolid 600 mg IV Q 12 Hrs for Vancomycin)
VAP / HCAP / Nosocomial Pneumonia	First Line: Zosyn 4.5 Gm IV Q 6 Hrs + Tobramycin 7 mg / Kg X 1, then per Rx + Vancomycin* 20 mg / Kg IV X 1, then per Rx (may substitute Linezolid 600 mg IV Q 12 Hrs for Vancomycin) Second Line (patients with nephrotoxicity risks): Zosyn 4.5 Gm IV Q 6 Hrs + Ciprofloxacin 400 mg IV Q 8 Hrs + Vancomycin* 20 mg / Kg IV X 1, then per Rx (may substitute Linezolid 600 mg IV Q 12 Hrs for Vancomycin)	Aztreonam 2 Gm IV Q 8 Hrs + Tobramycin 7 mg / Kg X 1, then per Rx ± Vancomycin* 20 mg / Kg IV X 1, then per Rx (may substitute Linezolid 600 mg IV Q 12 Hrs for Vancomycin)
Urosepsis	Ceftriaxone 1 Gm IV Q 24 Hrs	Ciprofloxacin 400 mg IV Q 12 Hrs
Intra-abdominal	Zosyn 4.5 Gm IV Q 6 Hrs	Ciprofloxacin 400 mg IV Q 8 Hrs + Metronidazole 500 mg IV Q 8 Hrs
Soft-tissue	Zosyn 4.5 Gm IV Q 6 Hrs + Vancomycin 20 mg / Kg IV X 1, then per Rx	Ciprofloxacin 400 mg IV Q 8 Hrs + Metronidazole 500 mg IV Q 8 Hrs + Vancomycin 20 mg / Kg IV X1, then per Rx
Febrile Neutropenia	Mild Sepsis: Cefepime 2 Gm IV Q 8 Hrs Moderate-Severe Sepsis: Zosyn 4.5 Gm IV Q 6 Hrs + Tobramycin 7 mg / Kg IV X 1, then per Rx + Vancomycin 20 mg / Kg IV X 1, then per Rx	Aztreonam 2 Gm IV Q 8 Hrs + Tobramycin 7 mg / Kg X 1, then per Rx + Vancomycin 20 mg / Kg IV X 1, then per Rx
Notes	<p>PCN allergy: IgE mediated hypersensitivity (rash, hives, and laryngospasms) to PCN and cephalosporins</p> <p>Nosocomial MRSA Risk: recent hospitalization, indwelling central line, history of MRSA infection/colonization, residence in a nursing home or transfer from another hospital, recent surgery, dialysis</p> <p>Community-associated MRSA Risk: recent influenza illness, necrotizing pneumonia, history of MRSA skin and soft tissue infection, intravenous drug use, participation in contact sports, leukopenia, and/or hemoptysis</p>	

NOTE: Antibiotic selection should be reviewed daily and targeted based on culture results.

Selected References

- American Thoracic Society. Guidelines for management of adults with hospital-acquired, ventilator-associated, and healthcare-associated pneumonia. *Am J Resp Care Med* 2005; 171:388-416
- American Thoracic Society / Infectious Diseases Society of America. American Thoracic Society / Infectious Diseases Society of America consensus on the management of community-acquired pneumonia in adults. *Clin Infect Dis* 2007; 44 Suppl 2: S27-72.
- Infectious Diseases Society of America. Guidelines for the Selection of Anti-infective Agents for Complicated Intra-abdominal Infections. *Clin Infect Dis* 2003; 37:997-1005.
- Infectious Diseases Society of America. Practice Guidelines for the Diagnosis and Management of Skin and Soft-Tissue Infections. *Clin Infect Dis* 2005; 41:1373-406.
- Infectious Diseases Society of America. Diagnosis and Treatment of Diabetic Foot Infections. *Clin Infect Dis* 2004; 39:885-910.
- Surviving sepsis campaign: International guidelines for management of severe sepsis and septic shock. 2008. *Intensive Care Med* 2008; 34:17-60.
- National Comprehensive Cancer Network (NCCN) Guidelines.
- St. Joseph Hospital Antibiogram 2008.

Worksheet for the consideration of Xigris® (activated drotrecogin alfa).

(Please complete Drotrecogin Alfa (activated) order form if therapy is to be initiated)

Patients should meet all of the following criteria to receive drotrecogin alfa:

- Patient has met criteria for diagnosis of sepsis and is currently enrolled in the severe sepsis pathway.
- Evidence of at least one of the following signs of organ dysfunction due to sepsis must be present, with a duration of < 24 Hrs.
 - Cardiovascular - An arterial systolic BP < 90 mm Hg or a mean arterial pressure (MAP) < 70 mm Hg for at least one Hr despite adequate fluid resuscitation, adequate intravascular volume status, or the use of vasopressors to maintain BP
 - Renal - Urine output < 0.5mL / Kg Hr for one Hr, despite adequate fluid resuscitation
 - Respiratory - PaO₂ / FIO₂ < 250 (if the pt. has pneumonia, the pt. must have a PaO₂ / FIO₂ < 200)
 - Hematology - Platelet count of < 80,000 / mm³ of a 50% decrease in the platelet count from the highest value recorded over the last 3 days
 - Metabolic Acidosis - pH < 7.30 or base deficit > 5.0 mEq/L or a plasma lactate level > 1.5 times the upper limit of normal
 - Other evidence of organ dysfunction:
- APACHE SCORE ≥ 25

Recommended contraindications for the use of Xigris® (activated drotrecogin alfa) include:

- Trauma patients with increased risk of life-threatening bleeding
- Active internal bleeding
- Recent (within 3 months) hemorrhagic stroke
- Recent (within 2 months) intracranial or intraspinal surgery, or severe head trauma
- Presence of epidural catheter
- Intracranial neoplasm or mass lesion or evidence of cerebral herniation
- Less than 12 Hrs post surgery requiring general or spinal anesthesia or potential need for surgery during infusion.

AGE (YEARS)	HEART RATE
≤ 44	0
45-54	2
55-64	3
65-74	5
≥ 75	6
	≥ 180
	140-179
	110-139
	70-109
	55-69
	< 40
TEMPERATURE (RECTAL)	MAP (prior to vasoactive therapy)
≥ 41	4
39-40.9	3
38.5-38.9	1
36-38.4	0
34-35.9	1
32-33.9	2
30-31.9	3
< 30	4
HEMATOCRIT (%)	WBC
≥ 60	4
50-59.9	2
46-49.9	1
30-45.9	0
20-29.9	2
≤ 20	4
RESPIRATORY RATE	ARTERIAL pH
≥ 50	4
35-49	3
25-34	1
12-24	0
10-11	1
6-9	2
≤ 5	4
SERUM CREATININE	SERUM POTASSIUM
≥ 3.5	4
2-3.4	3
1.5-1.9	2
0.6-1.4	0
< 0.6	2
	≥ 7
	6-6.9
	5.5-5.9
	3.5-5.4
	3-3.4
	2.5-2.9
	< 2.5
SERUM SODIUM	CHRONIC HEALTH POINTS
≥ 180	4
160-179	3
155-159	2
150-154	1
130-149	0
120-129	2
111-119	3
< 111	4
	Patients with history of severe organ system insufficiency or immunocompromised AND: -Non-operative or emergency postoperative = 5 or -Elective postoperative = 2
OXYGENATION	
FIO ₂ ≥ 0.5 record AaDO ₂ ≥ 500	4
FIO ₂ ≥ 0.5 record AaDO ₂ 350-499	3
FIO ₂ ≥ 0.5 record AaDO ₂ 200-349	2
FIO ₂ > 0.5 AaDO ₂ < 200 or FIO ₂ < 0.5 PaO ₂ > 70	0
FIO ₂ < 0.5 record PaO ₂ 61-70	1
FIO ₂ < 0.5 record PaO ₂ 55-60	1
FIO ₂ < 0.5 record PaO ₂ < 55	1
APACHE SCORE:	