



Empiric Antibiotic Recommendations by Source of Infection

If possible, first dose of antibiotics should be administered as a 30 minute infusion to reduce time to therapeutic concentration.

Unknown Source

Vancomycin¹ 25-30 mg/kg loading dose followed by 20 mg/kg Q8-12h.
Max dose 2 grams.
OR
Linezolid 600 mg IV Q12h.

AND

Piperacillin-tazobactam³ 4.5 grams IV Q8h.
OR
If in shock: **Cefepime** 2 grams IV Q8h.

AND

Gentamicin² 7 mg/kg IV Q24h.
Consult pharmacy for max dosing.
OR
Levofloxacin 750 mg IV Q24h.

Community-Acquired Pneumonia

Ceftriaxone 1 gram IV Q24h.
(2 grams if >80 kg.)
OR
Ampicillin-sulbactam 3 grams IV Q6h.

AND

Levofloxacin 750 mg IV Q24h.
OR
Azithromycin 500 mg PO/IV Q24h.

If at risk for aspiration, consider adding:

Metronidazole 500 mg IV Q8h.

Hospital-Acquired Pneumonia or High Risk for Multi-Drug Resistant (MDR) Organisms

Vancomycin¹ 25-30 mg/kg loading dose followed by 20 mg/kg Q8-12h.
Max dose 2 grams.
OR
Linezolid 600 mg IV Q12h.

AND

Piperacillin-tazobactam³ 4.5 grams IV Q6h.
OR
If in shock: **Cefepime** 2 grams IV Q8h.

AND

Levofloxacin 750 mg IV Q24h.
OR
Gentamicin² 7 mg/kg IV Q24h.
Consult pharmacy for max dosing.

Meningitis

Dexamethasone 10 mg IV prior to antibiotics.

AND

Vancomycin¹ 25-30 mg/kg loading dose followed by 20 mg/kg Q8-12h.
Max dose 2 grams.

AND

Ceftriaxone 2 grams IV Q12h.

If >50 years, ADD

Ampicillin 2 grams IV Q6h.

Urinary Tract Infection

Ceftriaxone 1 gram IV Q24h.
(2 grams if >80 kg.)

AND consider adding:

Gentamicin² 7 mg/kg IV Q24h.
Consult pharmacy for max dosing.
OR
Levofloxacin 750 mg IV Q24h.

If urological interventions or MDR risk factors, consider adding:
Piperacillin-tazobactam³ 3.375 grams IV Q6h.
OR
Cefepime 1 gram IV Q6h.

If at risk of ESBL, ADD:
Meropenem 500 g IV Q8h.

Intra-abdominal or Pelvic Infection

Piperacillin-tazobactam³ 3.375 grams IV Q6h.

OR

Cefepime 1 gram IV Q6h.
AND
Metronidazole 500 mg IV Q6h.

OR

Ciprofloxacin 400 mg IV Q12h.
AND
Metronidazole 500 mg IV Q8h.

Skin and Soft Tissue or Necrotizing Infections

IF PURULENT:
Vancomycin¹ 25-30 mg/kg loading dose followed by 20 mg/kg Q8-12h.
Max dose 2 grams.

IF NON-PURULENT:
Cefazolin 2 grams IV Q8h.
OR
Ceftriaxone 1-2 grams IV Q24h.
OR
Ampicillin-sulbactam 3 grams IV Q6h.

If necrotizing, ADD:

Piperacillin-tazobactam³ 3.375 grams IV Q6h.
AND
Clindamycin 900 mg IV Q8h.

OR

Ceftriaxone 2 grams IV Q12h.
AND
Metronidazole 500 mg IV Q6h.

Neutropenic Cancer Patients (ANC <500)

Piperacillin-tazobactam³ 4.5 grams IV Q6-8h.
OR
Cefepime 1 gram IV Q6h.

AND

Vancomycin¹ 25-30 mg/kg loading dose followed by 20 mg/kg Q8-12h.
Max dose 2 grams.

If concerned for HSV or VZV, consider adding:

Acyclovir 10 mg/kg Q8h.
Consult pharmacy for max dosing.

This guideline is designed for the general use of most patients but may need to be adapted to meet the special needs of a specific patient as determined by the medical practitioner.
Approved by MSEC 7/12/17.
If comments about this guideline, please contact
Tara Lathrop@ykhc.org.

¹ Linezolid may be substituted for vancomycin in patients with relative contraindication to vancomycin for high risk for acute kidney injury.
² Gentamicin dosing based on ideal body weight.
³ May substitute ampicillin-sulbactam 3 gram IV Q6h for piperacillin-tazobactam if not concerned for pseudomonas.



Vasopressors

All vasoactive medications should be infused via central line with the exception of dopamine, which can be infused via a peripheral IV at rates less than 10 mcg/kg/minute.

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| • Norepinephrine 8-12 mcg/min IV initial infusion rate. | First-line vasopressor of choice in sepsis. |
| • Epinephrine 1-10 mcg/min initially, titrated to effect. | May be added or used in place of norepinephrine to maintain adequate BP. |
| • Dopamine 2-20 mcg/kg/min. | Second-line option in highly select patients as it causes more tachycardia. |
| • Phenylephrine 100-180 mcg/min IV initial infusion until stabilized.
Titrate to goal of 60-200 mcg/min.
(Max dose range 80-360 mcg/min.) | Can be used as salvage therapy for refractive hypotension associated with tachycardia. |
| • Vasopressin 0.03-0.04 units/min. | May be added to norepinephrine to increase MAP or decrease norepinephrine dose.
DO NOT use as a single agent. |
| • Dobutamine 2-20 mcg/kg/min IV infusion. | May be used for inotropic support in the presence of severe myocardial dysfunction or hypoperfusion with depressed cardiac output. |

Corticosteroids

Corticosteroids should NOT be administered for the treatment of sepsis in the absence of shock. Steroids are beneficial in those experiencing adrenal insufficiency in the presence of septic shock; however ACTH testing is not routinely recommended in adult patients. If hemodynamic stability is not achieved after adequate fluid resuscitation and vasopressor therapy, the use of IV hydrocortisone alone at a dose of 200 mg/day can be considered regardless of adrenal insufficiency status. Hydrocortisone should be tapered when vasopressors are no longer required.

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