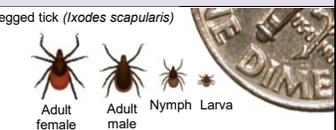


EMPIRIC ADULT ANTIMICROBIAL GUIDELINES – NORTHERN MICHIGAN 2025-2026

Infection	Preferred	Alternatives
Odontogenic Infection • Abx indicated if fever and regional lymphadenopathy are present	<ul style="list-style-type: none"> • Amp/sulbactam 3gm q6hr • Amox/clav 875/125mg BID x 7-10d 	Cefuroxime 500mg BID (or Levofloxacin 500 mg QD) + metronidazole 500 mg BID x 7-10d *Clindamycin alone is not reliable
Dental procedure prophylaxis • Infective endocarditis prevention	Visit ada.org for full list of indications and recommended agents. Prophylaxis is only for select patients undergoing manipulation of gingival or mucosal tissue. For patients with prosthetic joints, prophylaxis is not indicated to prevent joint infection.	
Streptococcal Pharyngitis • Based on strep screen or culture	<ul style="list-style-type: none"> • Penicillin VK 500mg BID x 10 d, or • Amox 500mg BID or 1gm QD x 10 d 	<ul style="list-style-type: none"> • Cephalexin 500mg BID x 10 d, or • Azithromycin (Zpak)
Acute Bacterial Sinusitis • Symptoms typically > 10 days	<ul style="list-style-type: none"> • Abx not usually required • Amox/clav 875/125 mg BID x 5 d 	Doxycycline 100 mg BID x 5 d
Chronic Sinusitis	Value of antibiotics uncertain. Consider ENT/Allergy consult	
Acute Otitis Media • Abx generally recommended for adults, but not always required for pediatrics – see peds guideline	Amox/clav 875/125 mg BID x 5-10 d* *5-7 d for mild-mod, 10 d for severe	<ul style="list-style-type: none"> • Cefdinir 300 mg BID x 5-10 d • Cefuroxime 500 mg BID x 5-10 d • Amoxicillin 1 gm TID x 5-10 d
Acute Bronchitis • Usually viral	No antibiotics - Consider testing for Pertussis, <i>Chlamydia pneumoniae</i> , <i>Mycoplasma</i> , and/or common circulating viruses such as RSV or COVID-19	
Acute Exacerbation COPD Consider antibiotics when ≥ 2 of 3 symptoms are present: 1. Dyspnea, 2. Sputum volume/viscosity, 3. Sputum purulence	Outpatient: <ul style="list-style-type: none"> • Azithromycin 500mg daily x 3 d or • Cefuroxime 500 mg BID x 5 d Inpatient: <ul style="list-style-type: none"> • Ceftriaxone 1 gm daily (empiric), de-escalate based on sputum culture & clinical response (5-day duration) 	<ul style="list-style-type: none"> • Amox/clav 875/125 mg BID x 5 d • Levofloxacin 750 mg x 3-5 d Consider stopping antibiotics at 48-72 hrs if rapid clinical response
Community-Acquired Pneumonia (CAP) <u>Duration:</u> 5 days	Outpatient: <ul style="list-style-type: none"> • Amoxicillin 1 gm TID x 5 d, or • Cefuroxime 500 mg BID x 5 d, + Azithromycin or Doxycycline x 5 d Inpatient: <ul style="list-style-type: none"> • Ceftriaxone 1 gm daily x 5 d + Azithromycin 500mg daily x 3 d 	Levofloxacin 750mg daily x 5 d
Hospital-Acquired Pneumonia (HAP) • Antibiotics should target MSSA & <i>Pseudomonas</i> • MRSA pneumonia is uncommon • No need for MRSA activity if MRSA nasal swab is negative	Cefepime 2 gm Q8hr x 5-7 d + vancomycin or linezolid x 5-7 d if MRSA risk factors Note: MRSA swab positivity is unlikely to predict MRSA PNA given low PPV (<30%)	Pip-tazo 4.5gm Q8hr x 5-7d + vancomycin or linezolid x 5-7d if MRSA risk factors Procalcitonin WNL may assist in stopping antibiotics early before planned end date in all pneumonia
Aspiration Pneumonia • Anaerobic bacteria are uncommon in the absence of empyema or lung abscess	Witnessed event does not require antibiotics. Consider monitoring for 48hr prior to starting antibiotics.	
Diverticulitis – uncomplicated	No antibiotics in the absence of sepsis, perforation, obstruction, or abscess	
Peritonitis , intra-abd abscess, pelvic abscess, complicated diverticulitis • If no/inadequate source control, duration depends on response.	<ul style="list-style-type: none"> • Ceftriaxone 2 gm Q24hr + Metronidazole 500mg Q12hr • Pip-tazo 4.5 gm Q8H 4hr INF Duration: 5 days after adequate source control i.e. OR drainage.	Levofloxacin 750 mg Q24hr + metronidazole 500mg Q12hr Duration: 5 days after adequate source control i.e. OR drainage.

Infection	Preferred	Alternatives
Asymptomatic Bacteriuria (ASB)	No antibiotics , unless pregnant or urologic procedure with mucosal bleeding. Encephalopathy in the absence of local or systemic signs/symptoms is not indicative of UTI, regardless of bacterial growth in urine culture. ***Urine culture not indicated in the absence of urinary symptoms***	
UTI , cystitis – uncomplicated • Infection limited to the bladder • Includes men and pregnant women	<ul style="list-style-type: none"> • Nitrofurantoin 100mg BID x 5 d or • Cephalexin 500mg BID x 7 d • TMP-SMX DS BID x 3 days, or • Ceftriaxone IV/IM or cefazolin 	<ul style="list-style-type: none"> • Fosfomycin 3 gm x 1 dose, or • Gentamicin 5 mg/kg IVPB x 1, or • Cipro 500mg BID x 3d (last line, not in pregnancy)
UTI – complicated • Infection beyond the bladder. • Includes: pyelonephritis, CAUTI, bacteremia, sepsis • Excludes: prostatitis • Duration: 7 days if clinically improving	<ul style="list-style-type: none"> • Ceftriaxone 2gm Q24hr, stepdown to: • TMP-SMX 1 DS BID x 7d • Cephalexin 1000 mg TID x 7d • Cipro 500 mg BID, or levofloxacin 750mg x 7d 	History of MDRO in the last 6 months <ul style="list-style-type: none"> • Pip-tazo 4.5 gm Q8hr • Cefepime 2gm Q8hr Consider ID consult for <i>Pseudomonas</i> bacteremia, Gram positive bacteremia, immunocompromised, or circumstances with abscess or ongoing obstruction.
<i>Clostridioides difficile</i> colitis • Initial episode	<ul style="list-style-type: none"> • Fidaxomicin 200 mg PO BID x 10 d, OR • Vancomycin 125 mg PO QID x 10 d 	
<i>Clostridioides difficile</i> colitis • Recurrence	<ul style="list-style-type: none"> • 1st recurrence: Fidaxomicin 200 mg BID x 10 d, Alt: Vancomycin pulse/taper • 2nd or subsequent recurrence: ID and/or GI consult 	
<i>Clostridioides difficile</i> colitis • Fulminant (hypotension or shock, ileus, megacolon)	Vancomycin 500mg PO QID + Metronidazole 500 mg IVPB Q8H until gut is functioning	ID and/or GI Consult
Purulent Cutaneous Abscess (mild-moderate), I&D, culture	<ul style="list-style-type: none"> • TMP-SMX DS BID x 7 d or • Doxycycline 100mg PO BID x 7 d 	Linezolid 600 mg PO BID x 7 d
Cellulitis – Non-purulent (mild – moderate) • Bilateral erythema more likely stasis dermatitis than cellulitis	<ul style="list-style-type: none"> • Pen VK 500 mg QID x 5-7 d or • Cephalexin 1gm TID x 5-7 d 	Doxycycline 100mg BID x 5-7 d
Diabetic Foot Infection (OP) • Duration: 1 to 2 weeks depending on severity	Amox/clav 875/125 mg BID + (TMP-SMX DS BID or Doxycycline 100mg BID if MRSA suspected)	TMP-SMX DS BID +/- Metronidazole 500 mg BID
Diabetic Foot Infection (IP) • If stable, hold Abx until deep cultures obtained	<ul style="list-style-type: none"> • Ampicillin/sulbactam 3gm IV Q6hr • Add vancomycin* if MRSA suspected *Duration depends on clinical findings	Ceftriaxone 2gm QD + Metronidazole 500mg BID (Add Vancomycin* if MRSA suspected)
Dog / Cat / Human Bite • High-risk bites may require antibiotic prophylaxis • Assess need for tetanus and Rabies PEP	<ul style="list-style-type: none"> • Ampicillin/sulbactam 3gm IVPB Q6H x 7 d if soft tissue only • Amox/Clav 875/125 mg BID x 7 d 	TMP-SMX DS BID or Doxycycline 100 mg BID + metronidazole 500 mg TID x 7d
Tick Bite • Engorged <i>Ixodes scapularis</i>	Doxycycline 200 mg x1 dose if given within 72 hours of removal Blacklegged tick (<i>Ixodes scapularis</i>) 	

After 48 hours of antimicrobial therapy, reassess for appropriateness and opportunities for de-escalation