

Norton Children's Hospital Emergency Department Antimicrobial Guidelines		
Diagnosis	Common Pathogens	Outpatient preferred and alternative agents and duration
Respiratory Tract		
Acute Otitis Media	Streptococcus pneumoniae, Haemophilus influenzae, and Moraxella catarrhalis	1st Line Treatment  Amoxicillin: 80-90 mg/kg/day divided BID (max: 4,000 mg/day)  Alternate Treatment  Amoxicillin- Clavulanate (600mg-42.9mg/ 5mL): 80-90 mg/kg/day divided BID (max: 4,000 mg/day)  Cefdinir: 14 mg/kg/day divided BID (max: 600 mg/day)  Ceftriaxone: 50 mg/kg/day (max: 1,000mg) for 1 to 3 days  Single dose of ceftriaxone is effective for uncomplicated otitis media.  Three doses of Ceftriaxone are recommended for treatment failure.  Duration
Acute Sinusitis	Streptococcus pneumoniae, Haemophilus influenzae, Moraxella catarrhalis, Group A Streptococcus	
Chronic Sinusitis	Streptococcus pneumoniae, Haemophilus influenzae, Moraxella catarrhalis, Group A Streptococcus, Pseudomonas aeruginosa, MSSA or MRSA, Anaerobes	Duration: 5 to 7 days  1st Line Treatment  Amoxicillin- Clavulanate (600mg-42.9mg/ 5mL): 80-90 mg/kg/day divided BID (max: 4,000 mg/day)  Alternate Treatment  Levofloxacin: 10-20mg/kg/day divided BID or QD (max: 500mg/day)  Clindamycin: 30-40 mg/kg/day divided TID (max: 1,800 mg/day) + Ciprofloxacin: 20-40mg/kg/day divided BID (max: 1,500 mg/day)
Pharyngitis	Group A Streptococcus	Duration: 7 to 10 days  1st Line Treatment  Amoxicillin: 50mg/kg once a day or divided BID (max: 1,000 mg/day)  Alternate Treatment  Cephalexin: 40mg/kg/day divided BID (max: 500 mg/dose)  Clindamycin: 21 mg/kg/day divided TID (max: 300 mg/dose)  Duration: 10 days



**Disclaimers** 

Respiratory Continued		
cus aureus, Is pyogenes, s influenzae, Anaerobes	1st Line Treatment  Amoxicillin- Clavulanate (600mg-42.9mg/ 5mL): 80-90 mg/kg/day divided BID (max: 4,000 mg/day)  Alternate Treatment  Clindamycin: 30 -40 mg/kg/day divided TID (max: 1,800 mg/day)	
ptococcus, Oral Polymicrobial	Duration: 5 to 10 days  1st Line Treatment  Amoxicillin- Clavulanate (600mg-42.9mg/ 5mL): 80-90 mg/kg/day divided BID (max: 4,000 mg/day)  Alternate Treatment  Clindamycin: 30-40 mg/kg/day divided TID (max: 1,800 mg/day)  Duration: 10 to 14 days	
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is pneumoniae, is influenzae, MRSA or o A Streptococcus	1st Line Treatment  Amoxicillin: 80-90 mg/kg/day divided BID (max: 4,000 mg/day) or 90 mg/kg/day divided TID (max: 3,000mg/day)  Alternate Treatment  Amoxicillin- Clavulanate  600mg-42.9mg/ 5mL or al suspension: 80-90 mg/kg/day divided BID (max: 4,000 mg/day) or 90 mg/kg/day divided TID (max: 3,000mg/day)  875/125 mg tablet: 80-90 mg/kg/day divided BID (max: 875 mg/dose) or 80-90 mg/kg/day divided TID (max: 875 mg/dose)  1000/62.5 mg ER tablet: 80-90 mg/kg/day divided BID (max: 4,000 mg/day) or 90 mg/kg/day divided TID (max: 3,000mg/day)  **** Requires PA ***  Levofloxacin  26 months to <5 years: 16-20 mg/kg/day divided BID (max: 750mg/day)  **** Levofloxacin or al solution often requires a PA, please utilize tablets that can be crushed whenever possible ***  If able to round doses to tablet size/adult sized patients:  Cefpodoxime 10 mg/kg/day PO divided BID (max: 400 mg/day)  **** Please confirm availability at Norton Outpatient Phar macy prior to sending prescription ***	
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**Disclaimers** 

Pneumonia Continue	\$	
Skin Soft Tissue	Mycoplasma pneumoniae, Chlamydia pneumonia	1st Line Treatment  Azithromycin: 10mg/kg once on Day 1 (max: 500 mg/dose), followed by 5mg/kg (max: 250 mg/dose) once daily on Days 2 to 5  Alternate Treatment  Doxycycline: 4 mg/kg/day divided BID for 10 days (max: 100 mg/dose)
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Cellulitis	MSSA or MRSA, Group A strepto coccus	1st Line Treatment  Purulent  Clindamycin: 30-40 mg/kg/day divided TID  (max: 1,800mg/day)  Non- Purulent  Cephalexin: 75mg/kg/day divided TID  (max: 500mg/dose)  Alternate Treatment  Bactrim: 8-12 mg TMP/kg/day divided BID (max: 320 mg/dose) +  Cephalexin: 50-75 mg/kg/day divided TID (max: 500 mg/dose)  Duration: 5 to 7 days
Impetigo	MSSA or MRSA, Group A streptococcus	1st Line Treatment Topical 2% mupirocin: Apply BID or TID for 5 days Alternate Treatment Cephalexin: 50-75 mg/kg/day divided TID (max: 500 mg/dose) Clindamycin: 30-40 mg/kg/day divided TID (max: 1,800 mg/day) Duration: 7 days
Skin Absæss	MSSA or MRSA	1st Line Treatment Clindamycin: 30-40 mg/kg/day divided TID (max: 1,800 mg/day) Alternate Treatment Bactrim: 8-12 mg TMP/kg/day divided BID (max: 320mg/dose) Duration: 5 to 7 days
Human Bite	Eikenella corrodens, Oral Anaerobes, Polymicrobial	1st Line Treatment  Amoxicillin- Clavulanate (400mg-57mg/ 5mL): 50 mg/kg/day divided BID (max: 875mg/dose)  Alternate Treatment  Clindamycin: 30 -40mg/kg/day divided TID (max: 1,800 mg/day) +Bactrim: 8-12 mg of TMP/kg/day divided BID (Max: 160mg/dose)  Duration: Prophylaxis: 3 to 5 days Treatment: 7 to 14 days



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Skin, Soft Tissue, and Musculoskeletal Continued			
Animal Bite	Eikenella corrodens, Oral Anaerobes, Polymicrobial, Pasteurella Multocida	1st Line Treatment  Amoxicillin- Clavulanate (400mg-57mg/ 5mL): 50 mg/kg/day divided BID (max: 875/dose) Alternate Treatment  Clindamycin: 30 -40 mg/kg/day divided TID (max: 1,800 mg/day) +Bactrim: 8-12 mg of TMP/kg divided BID (Max: 160mg/dose)  Duration  Prophylaxis: 3 to 5 days	
Lymphadenitis	MSSA or MRSA, Group A Streptococcus	<ul> <li>Treatment: 7 to 14 days</li> <li>1st Line Treatment</li> <li>Amoxicillin- Clavulanate (400mg-57mg/ 5mL): 50 mg/kg/day divided BID (max: 875mg/dose)</li> <li>Clindamycin: 30 -40 mg/kg/day divided TID (max: 1,800 mg/day)</li> <li>Duration: 5 to 7 days</li> </ul>	
Puncture Wound of the Foot	MSSA or MRSA, Group A Streptococcus, Pseudomonas aeruginosa	1st Line Treatment  Levofloxacin  • ≥6 months to <5 years: 16-20 mg/kg/day divided BID (max:750 mg/day)  • ≥5 years: 8-10 mg/kg once a day (max:750 mg/day)  Alternate Treatment  Clindamycin: 30-40 mg/kg/day divided TID (max: 1,800 mg/day) + Ciprofloxacin: 20-40 mg/kg/day divided BID (max: 1,500 mg/day)  Duration:  Prophylaxis: 3 to 5 days  Treatment: 7 to 10 days	
Odontogenic Infection	Oral flora	1st Line Treatment  Amoxicillin: 50 mg/kg/day divided TID (max: 500 mg/dose)  Alternate Treatment  Amoxicillin- Clavulanate (400mg-57mg/ 5mL): 50 mg/kg/day divided BID (max: 875mg/dose)  Clindamycin: 30 -40mg/kg/day divided TID (max: 1,800 mg/day)  Duration: 7 days	
Herpes	HSV	1st Line Treatment  Acyclovir  Orolabial  20mg/kg/dose QID (max: 800mg/dose) for 5 to 7 days  Genital  < 412 years: 20 mg/kg/dose TID (max: 400 mg/dose) for 7 to 10 days  Mucocutaneous  Mucocutaneous  20 mg/kg/dose QID (max: 800mg/dose) for 5 to 7 days	



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Genitourinary Tract		
Cystitis	Enteric gram- negatives (Escherichia Coli, Klebsiella, Enterobacter, Proteus)	1st Line Treatment Cephalexin: 75 mg/kg/day divided TID (max: 500 mg/dose) Alternate Treatment Amoxicillin- Clavulanate (400mg-57mg/ 5mL): 50 mg/kg/day divided BID (max: 875mg/dose) Bactrim: 8-12 mg of TMP/kg/day divided BID (max: 160mg/dose) Adolescent
Pyelonephritis	Enteric gram- negatives (Escherichia Coli, Klebsiella, Enterobacter, Proteus)	1st Line Treatment Cephalexin: 75 mg/kg/day divided TID (max:1,000 mg/dose) Alternate Treatment Amoxicillin- Clavulanate (400mg-57mg/ 5mL): 50 mg/kg/day divided BID (max: 875mg/dose) Ciprofloxacin: 20-40 mg/kg/day divided BID (max: 1,500 mg/day) Bactrim: 8-12 mg of TMP/kg/day divided BID (max: 160mg/dose) Duration: 10 days
Pelvic Inflammatory Disease (uncomplicated)	Neisseria gonorrhea, Chlamydia trachomatis, Enteric gram- negatives (Escherichia Coli, Klebsiella, Enterobacter, Proteus)	1st Line Treatment     Ceftriaxone: 500mg in a single dose + Doxycycline: 100mg BID for 14 days + Metronidazole: 500mg BID for 14 days
C. difficile	Clostridioides difficile	1st Line Treatment  Initial (non-severe)  Metronidazole: 22.5-30mg/kg/day divided TID or QID  (max: 500mg/dose)  Liquid formulation hard to find*  Vancomycin 40mg/kg/day divided QID (max: 125mg/dose)  Liquid formulation hard to find*  CANNOT open capsules  Initial (severe)  Vancomycin 40mg/kg/day divided QID (max: 500mg/dose)  Liquid formulation hard to find*  CANNOT open capsules  Alternate Treatment  Fidaxomicin: 32mg/kg/day divided BID (max:200mg/dose)  Duration: 10 days



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Fractures				
Open fracture prop hylaxis	MSSA, MRSA, Streptococcus, Anaerobes, Enteric gram- negatives (Escherichia Coli, Klebsiella, Enterobacter, Proteus)	<ul> <li>Grade 1         <ul> <li>First Line:</li></ul></li></ul>		



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The policies set forth in this policy library do not establish a standard to be followed in every case. It is impossible to anticipate all possible solutions that may exist and to prepare policies for each. These policies should be considered guidelines with the understanding that departures from them may be required at times. Accordingly, it is recognized that those individuals employed in providing healthcare are expected to use their own judgment in determining what is in the best interests of the patient based on the circumstances existing at the time. If a policy contains references to clinical literature or other resources, such as Lippincott, Ovid, and/or Elsevier, these resources are only intended to support the reasoning for adoption of certain guidelines contained herein. It is not an endorsement of any article or text as authoritative. Norton Healthcare specifically recognizes there may be articles or texts containing other opinions on point that may be helpful and valid which would support other care or actions, given a particular set or circumstances. No literature is ever intended to replace the education, training and experience or exercise of judgment of the healthcare providers.

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