

ANMC Adult & Pediatric Ambulatory Care Guideline for Acute Sinusitis

Signs & Symptoms	Cardinal Criteria for Bacterial Sinusitis
<ul style="list-style-type: none"> Persistent & not improving (≥ 10 days) Symptoms worsen within 10 days <i>after</i> initial improvement (double worsening) 	Must have purulent nasal discharge PLUS Nasal obstruction AND/OR facial pain/pressure/fullness

Initial Management

Watchful waiting	EXCEPTIONS to Watchful Waiting
<ul style="list-style-type: none"> Consider delaying the initiation of ABX for any severity of symptoms Initiate treatment if condition fails to improve by 3 days in children or 7 days in adults Consider wait-and-see-prescription 	Patients with <u>chronic rhinosinusitis</u> or <u>recurrent acute rhinosinusitis</u> in chronic conditions such as: <ul style="list-style-type: none"> - Asthma - Ciliary dyskinesia - Cystic Fibrosis - Immunocompromised state

Risk for Antibiotic Resistance

<ul style="list-style-type: none"> Prior antibiotics in past 30 days Age <2 or >65 years Comorbidities 	<ul style="list-style-type: none"> Prior hospitalization in past 5 days Attend daycare Immunocompromised 	<ul style="list-style-type: none"> Moderate to severe or prolonged signs and symptoms Failure of prior ABX tx Frontal or sphenoidal sinusitis
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Symptomatic Relief Medications—Adjunctive Treatment

	Adults	Children
FIRST LINE: Intranasal saline irrigation	Sinus Rinse starter kit Available from ENT or PCC (or purchase OTC)	Sodium Chloride 0.9% Inhalation bullets (or purchase OTC)
Intranasal corticosteroids are recommended as adjunctive in patients with hx of allergic rhinitis	Fluticasone propionate 2 sprays each nostril daily	Fluticasone propionate (≥ 4 yrs) 1 spray each nostril daily Triamcinolone acetonide (2-4 yrs) 1 spray each nostril daily
Pain/Fever	Ibuprofen 400-800mg PO q8hr PRN pain/fever (max 3200mg/day) Acetaminophen 325-650mg PO q4hr PRN pain/fever (max 4000mg/day)	Ibuprofen <i>age >6 months old:</i> 10mg/kg PO q8hr PRN pain/fever (max 3200mg/day) Acetaminophen 15mg/kg PO q4hr PRN pain/fever (max 4000mg/day)
Nasal decongestant	<i>Restricted to ENT: Oxymetazoline (Afrin®) 1-3 sprays each nostril daily for up to 1 week if used concomitantly with intranasal steroid (or purchase OTC)</i>	

Antibiotic Selection

Empiric Antibiotic Treatment	Adults	Duration	Children	Duration
1 st Line Treatment	I. Amoxicillin/clavulanate 875mg/125mg PO BID	5 days	I. Amoxicillin/clavulanate 22.5mg/kg PO BID (max 875mg/dose)	10 days
PCN allergic alternatives	I. Clindamycin 300mg PO TID PLUS Cefpodoxime 200mg PO BID II. Levofloxacin 500mg PO q24hr	5 days	I. Clindamycin 10mg/kg PO TID (max 300mg/dose) PLUS Cefdinir 14mg/kg/day (max 600mg/day) II. Levofloxacin (max 500mg/day) <i>6 months to 5 years old:</i> 10mg/kg PO BID <i>5 to 16 years of age:</i> 10mg/kg PO q24hr	10 days
At risk for Antibiotic Resistance → (See section above for criteria)	I. Amoxicillin/clavulanate 875mg/125mg PO BID PLUS Amoxicillin 1gm PO BID II. Levofloxacin 500mg PO q24hr	5 days	I. Amoxicillin/clavulanate (ES) 600mg/42.5mg/5mL 45mg/kg PO BID (max 875mg/dose) II. Clindamycin 10mg/kg PO TID (max 300mg/dose) PLUS Cefdinir 14mg/kg/day (max 600mg/day) III. Levofloxacin (max 500mg/day) <i>6 months to 5 years old:</i> 10mg/kg PO BID <i>5 to 16 years of age:</i> 8-10mg/kg/day PO Q 24 Hours	10 days

Follow up

NOTES

<p>Worse or NO improvement at 7 days:</p> <ul style="list-style-type: none"> Reassess and confirm diagnosis, exclude other causes, and detect complications If watch and wait management, initiate 1st line treatment If 1st line tx, consider treatment from “At risk for ABX resistance” above 	<ul style="list-style-type: none"> Approximately 15% of <i>H. influenzae</i> isolates produce beta-lactamases and are resistant to amoxicillin. Macrolides are NOT recommended for empiric therapy due to high rates of resistance among <i>S. pneumoniae</i> Sulfamethoxazole/Trimethoprim is NOT recommended for empiric therapy due to high rates of resistance to <i>S. pneumoniae</i> and <i>H. influenzae</i> Routine coverage for MRSA is NOT recommended for initial empiric therapy. <ul style="list-style-type: none"> Endoscopic-guided culture and/or empiric <i>Staph aureus</i> coverage (bactrim or doxycycline) should be considered in patients who have had RECENT SINUS SURGERY. Oral decongestants or antihistamines are NOT recommended as adjunctive tx for acute sinusitis.
<p>If NO improvement from 2nd antibiotic:</p> <p>Refer to specialist; consider CT sinuses</p>	