

# ANMC Adult & Pediatric Ambulatory Care Guideline for Acute Sinusitis

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

## Initial Management

Watchful waiting	EXCEPTIONS to Watchful Waiting
<ul style="list-style-type: none"> <li>Consider delaying the initiation of antibiotics for any severity of symptoms</li> <li>Initiate treatment if condition fails to improve by 3 days in children or 7 days in adults</li> <li>Consider wait-and-see-prescription</li> </ul>	Patients with <u>chronic rhinosinusitis</u> or <u>recurrent acute rhinosinusitis</u> in chronic conditions such as: <ul style="list-style-type: none"> <li style="width: 50%;">- Asthma</li> <li style="width: 50%;">- Ciliary dyskinesia</li> <li style="width: 50%;">- Cystic Fibrosis</li> <li style="width: 50%;">- Immunocompromised state</li> </ul>

## Risk for Antibiotic Resistance

<ul style="list-style-type: none"> <li>Prior antibiotics in past 30 days</li> <li>Age &lt;2 or &gt;65 years</li> <li>Comorbidities</li> </ul>	<ul style="list-style-type: none"> <li>Prior hospitalization in past 5 days</li> <li>Attend daycare</li> <li>Immunocompromised</li> </ul>	<ul style="list-style-type: none"> <li>Moderate to severe or prolonged signs and symptoms</li> <li>Failure of prior antibiotic therapy</li> <li>Frontal or sphenoidal sinusitis</li> </ul>
---	---	--

## Symptomatic Relief Medications—Adjunctive Treatment

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

## Antibiotic Selection

Empiric Antibiotic Treatment	Adults	Duration	Children	Duration
1 <sup>st</sup> Line Treatment	<b>I. Amoxicillin/clavulanate</b> 875mg/125mg PO BID	5 days	<b>I. Amoxicillin/clavulanate</b> 22.5mg/kg PO BID (max 875mg/dose)	10 days
PCN allergic alternatives	<b>I. Clindamycin</b> 300mg PO TID <b>PLUS</b> <b>Cefpodoxime</b> 200mg PO BID  <b>II. Levofloxacin</b> 500mg PO q24hr	5 days	<b>I. Clindamycin</b> 10mg/kg PO TID (max 300mg/dose) <b>PLUS</b> <b>Cefdinir</b> 14mg/kg/day (max 600mg/day) <b>II. Levofloxacin</b> (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
<b>At risk for Antibiotic Resistance</b> → (See section above for criteria)	<b>I. Amoxicillin/clavulanate</b> 875mg/125mg PO BID <b>PLUS</b> <b>Amoxicillin</b> 1gm PO BID  <b>II. Levofloxacin</b> 500mg PO q24hr	5 days	<b>I. Amoxicillin/clavulanate (ES)</b> 600mg/42.5mg/5mL 45mg/kg PO BID (max 875mg/dose) <b>II. Clindamycin</b> 10mg/kg PO TID (max 300mg/dose) <b>PLUS</b> <b>Cefdinir</b> 14mg/kg/day (max 600mg/day) <b>III. Levofloxacin</b> (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><b>Worse or NO improvement at 7 days:</b></p> <ul style="list-style-type: none"> <li>Reassess and confirm diagnosis, exclude other causes, and detect complications</li> <li>If watch and wait management, initiate 1<sup>st</sup> line treatment</li> <li>If 1<sup>st</sup> line therapy, consider treatment from “At risk for antibiotic resistance” above</li> </ul> <p><b>If NO improvement from 2<sup>nd</sup> antibiotic:</b> Refer to specialist; consider CT sinuses</p>	<ul style="list-style-type: none"> <li>Approximately 15% of <i>H. influenzae</i> isolates produce beta-lactamases and are resistant to amoxicillin.</li> <li><b>Macrolides</b> are <b>NOT</b> recommended for empiric therapy due to high rates of resistance among <i>S. pneumoniae</i></li> <li><b>Sulfamethoxazole/Trimethoprim</b> is <b>NOT</b> recommended for empiric therapy due to high rates of resistance to <i>S. pneumoniae</i> and <i>H. influenzae</i></li> <li>Routine coverage for MRSA is <b>NOT</b> recommended for initial empiric therapy.                     <ul style="list-style-type: none"> <li><b>Endoscopic-guided culture</b> and/or empiric <i>Staph aureus</i> coverage (bactrim or doxycycline) should be considered in patients who have had <b>RECENT SINUS SURGERY</b>.</li> </ul> </li> <li><b>Oral decongestants</b> or antihistamines are <b>NOT</b> recommended as adjunctive treatment for acute sinusitis.</li> </ul>
---	---