

2016 ANMC Adult & Pediatric Ambulatory Guideline for Acute Sinusitis

Signs & Symptoms → - Persistent & not improving (≥10 days) - Symptoms worsen within 10 days <i>after</i> initial improvement (double worsening)	Cardinal Criteria for Bacterial Sinusitis Must have purulent nasal discharge PLUS Nasal obstruction AND/OR facial pain/pressure/fullness
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Initial Management

Watchful waiting - Consider delaying the initiation of ABX for any severity of symptoms - Initiate tx if condition fails to improve by 3 days in children or 7 days in adults - Consider wait-and-see-prescription (WASP) - 1 st line tx should be initiated if above criteria are met	EXCEPTIONS to Watchful Waiting Patients with <u>Chronic Rhinosinusitis</u> or <u>recurrent Acute Rhinosinusitis</u> in multiple chronic conditions such as: - Asthma - Cystic Fibrosis - Ciliary dyskinesia - Immunocompromised state
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Risk for Antibiotic Resistance

- Prior Abx in past 30 days - Prior hospitalization in past 5 days - Moderate to severe or prolonged signs and symptoms	- Age <2 or >65 - Attend daycare - Failure of prior ABX tx	- Comorbidities - Immunocompromised - 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 (≥4yrs): 1 spray each nostril daily Triamcinolone acetonide (2-4yrs): 1 spray each nostril daily
Pain/Fever	Ibuprofen 400-800mg PO Q 8 Hours PRN pain/fever Acetaminophen 325-650mg PO Q 4 Hours PRN pain/fever (max 3250mg/day)	Ibuprofen <i>age > 6 months old:</i> 5-10mg/kg/dose Q 8 Hours PRN pain/fever Acetaminophen 10-15mg/kg/dose PO Q 4 Hours PRN pain/fever
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 st Line Tx	I. Amoxicillin/clavulanate 875mg/125mg PO BID	5 days	I. Amoxicillin/clavulanate: 45mg/kg/day PO divided BID	10 days
PCN allergic alternatives	I. Clindamycin 300mg PO TID <u>plus</u> Cefpodoxime 200mg PO BID II. Levofloxacin 500mg PO Q 24 Hours	5 days	I. Clindamycin 30-40mg/kg/day PO TID <u>plus</u> Cefdinir 14mg/kg/day II. Levofloxacin [max dose of 500mg] <i>6 months to 5 years old:</i> 16-20mg/kg/day PO divided BID <i>5 to 16 years of age:</i> 8-10mg/kg/day PO Q 24 Hours	10 days
At risk for ABX Resistance → (See section above for criteria)	I. Amoxicillin/clavulanate 875mg/125mg PO BID <u>plus</u> Amoxicillin 1gm PO BID II. Levofloxacin 500mg PO Q 24 Hours	5 days	I. Amoxicillin/clavulanate (ES) 600mg/42.5mg/5mL: 90mg/kg/day PO divided BID II. Clindamycin 30-40mg/kg/day PO TID <u>plus</u> Cefdinir 14mg/kg/day III. Levofloxacin [max dose of 500mg] <i>6 months to 5 years old:</i> 16-20mg/kg/day PO divided BID <i>5 to 16 years of age:</i> 8-10mg/kg/day PO Q 24 Hours	10 days

****Fluoroquinolone FDA Safety Alert:** *Disabling & potentially permanent adverse effects outweigh benefit in sinusitis. Only use levofloxacin when no other alternatives exist.*

Follow up

NOTES

Worse or NO improvement at 7 days: - Reassess and confirm diagnosis, exclude other causes, and detect complications - If watch and wait management, initiate 1 st line treatment - If 1 st line tx, consider treatment from “At risk for ABX resistance” above	**Saline nasal irrigations are safe & effective for symptom relief & do NOT lead to resistance. - Approximately ¼ of <i>H. influenza</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. influenza</i> - Routine coverage for MRSA is NOT recommended for initial empiric therapy. - Endoscopic-guided culture and/or empiric <i>Staph aureus</i> coverage (bactrim or doxycycline) should, however, be considered in patients who have had RECENT SINUS SURGERY . - Oral decongestants or antihistamines are NOT recommended as adjunctive tx for acute sinusitis.
If NO improvement from 2nd antibiotic: Refer to specialist; consider CT sinuses	