

ADULT ACUTE RHINOSINUSITIS CLINICAL DECISION AID

Definition¹: purulent nasal discharge AND nasal obstruction AND facial pain, pressure or both lasting <4 weeks in duration (this aid does NOT apply to chronic sinusitis).

Acute **viral** rhinosinusitis (AVRS) accounts for **90-98%** of sinusitis presentations¹.

Acute **bacterial** rhinosinusitis (ABRS) complicates **2-10%** of cases.

Clinical judgement in each situation is needed to determine if the Decision Aid applies

RESERVE ANTIBIOTICS FOR 3 SCENARIOS*

Severe	Severe symptoms at presentation
Worsening	Worsening course in the first 5 days
Persistent	Persistent sinusitis symptoms beyond 7-10 days without improvement, or getting worse
A delayed antibiotic prescription can be considered where clinical uncertainty or other situational factors present (e.g. Other clinical concern by physician, long weekend, patient circumstance such as trip.)	
Employ Safety-Netting: Consider advising patients to notify office if they start Rx, or if symptoms worsen, as clinical re-assessment may be needed.	

* these scenarios suggest ABRS>AVRS¹; x-ray or CT not warranted for uncomplicated ABRS^{2,4}

RECOMMENDED ANTIBIOTICS¹⁻³

Amoxicillin^{2,3} 500 mg po tid x 5-7 days OR Amoxicillin-clavulanate¹ 875 mg po bid x 5-7 days**
**(2nd line OR if increased resistance risk – eg. antibiotics in last 3 mos, recent hospital stay, immune compromised)¹

If penicillin allergic (adults only)^{3,4}:

Doxycycline 100 mg po bid x 5-7 days (Note: NOT if pregnant)

Reserve levofloxacin, moxifloxacin as last resort due to increasing resistance, risk of C.difficile.

(Macrolides, cephalosporins, TMP- SMX DS no longer recommended in sinusitis due to resistance concerns)^{3,4}

SUPPORTIVE CARE

- Analgesics as needed for pain or fever
- Intranasal saline irrigation or saline sprays may be of benefit^{1,3}
- Intranasal steroid effectiveness is unclear & recommendations to use are conflicting¹⁻⁴
- Oral or topical decongestant may provide symptoms relief (if no contraindication)²
(U.S. no longer advises; risk of rhinitis medicamentosa (rebound congestion) if used >3-5 days).¹

OTHER POINTS TO KEEP IN MIND

Red Flag Symptoms: Urgent consultation for severe symptoms, systemic toxicity, confusion, severe headache, if orbital or intracranial involvement suspected.² Sinus x-rays, CT not indicated for uncomplicated sinusitis as cannot differentiate ABRS from AVRS

1. Infectious Disease Society of America; IDSA Clinical Practice Guideline for Acute Bacterial Rhinosinusitis in Children and Adults. *Clinical Infectious Diseases* 2012; DOIU:10.1093/cid/cir1043.)
2. Desrosiers et al. Canadian clinical practice guidelines for acute and chronic rhinosinusitis. *Allergy, Asthma & Clinical Immunology* 2011; 7:2
3. Fryters et al. *CFPC: Infectious Diseases: Sinusitis*. E-therapeutics, Canadian Pharmacists Association, 2015
4. Rosenfeld et al. Clinical Practice Guideline (Update): Adult Sinusitis. *Otolaryngol-Head Neck Surg* 152:S1-29, 2015.