

## **ADULT ACUTE RHINOSINUSITIS CLINICAL DECISION AID**

**Definition**<sup>1</sup>: 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 presentations<sup>1</sup>.

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\***

<b>Severe</b>	Severe symptoms at presentation
<b>Worsening</b>	Worsening course in the first 5 days
<b>Persistent</b>	Persistent sinusitis symptoms beyond 7-10 days without improvement, or getting worse
<b>A delayed antibiotic prescription can be considered where clinical uncertainty or other situational factors present</b> (e.g. Other clinical concern by physician, long weekend, patient circumstance such as trip.)	
<b>Employ Safety-Netting:</b> 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>AVRS<sup>1</sup>; x-ray or CT not warranted for uncomplicated ABRS<sup>2,4</sup>

### **RECOMMENDED ANTIBIOTICS<sup>1-3</sup>**

**Amoxicillin**<sup>2,3</sup> 500 mg po tid x 5-7 days OR **Amoxicillin-clavulanate**<sup>1</sup> 875 mg po bid x 5-7 days\*\*  
\*\*( 2<sup>nd</sup> line OR if increased resistance risk – eg. antibiotics in last 3 mos, recent hospital stay, immune compromised)<sup>1</sup>

**If penicillin allergic (adults only)**<sup>3,4</sup>:

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)<sup>3,4</sup>

### **SUPPORTIVE CARE**

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

### **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, or failure to improve in 72 hrs.<sup>2</sup> 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.