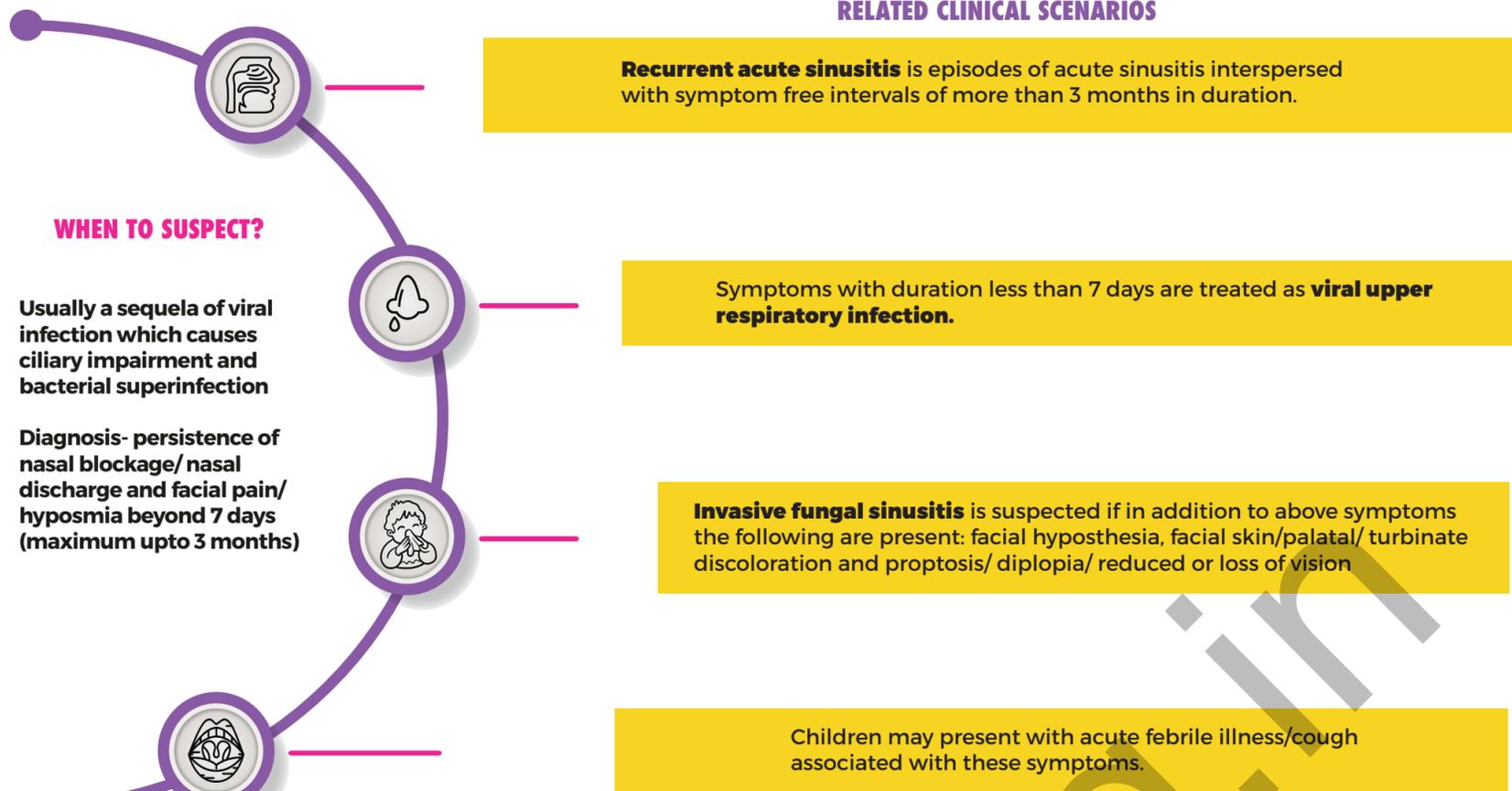




Standard Treatment Workflow (STW) for the Management of ACUTE RHINOSINUSITIS ICD 10 J01.90

RELATED CLINICAL SCENARIOS



ALTERNATIVE CLINICAL SCENARIOS

- Consider alternate diagnosis if: Unilateral symptoms/ Bleeding/ Crusting/ Cacosmia (foul smell)
- Rule out other contributory factors: Allergy/ upper alveolar dental caries/ DNS/ LPR/ smoking.
- Rhinorrhoea and nasal congestion in second trimester of pregnancy is considered hormonal in etiology and is to be managed with saline irrigation/ drops

RED FLAGS FOR REFERRAL TO DISTRICT HOSPITAL

- Known diabetic/ immunocompromised
- Suspicion of complications viz. (A) Orbital involvement (Periorbital edema/ erythema, displaced globe, ophthalmoplegia, visual disturbance); (B) Meningitis/ altered sensorium; (C) Frontal fullness.
- Non-resolution with oral antibiotics for ten days
- Pointers of invasive fungal sinusitis (Facial hypoesthesia, facial skin/palatal/turbinate discoloration)

CLINICAL EXAMINATION

PRELIMINARY

- Anterior rhinoscopy: Discharge, bleeding, crusting, polyposis
- Oral examination: Dental caries, post nasal drip, palatal discoloration
- Assess for contributory factors listed above

DESIRABLE

- Nasal endoscopy

LABORATORY INVESTIGATIONS

Desirable in non-resolving/worsening cases despite antibiotic therapy

- Endoscopy- for guided nasal swabs/ KOH smear
- CT PNS (for suspected complications / non-resolving cases on antibiotics for 14 days)
- Screen for Diabetes / Immunodeficiency

MANAGEMENT

PHC / PRIMARY LEVEL

Duration of treatment 7-14 days

- Oral antibiotics- Amoxicillin/ Coamoxyclov for 7-10 days. Levofloxacin and Azithromycin can be opted for patients intolerant/ sensitive to penicillins.
- Topical budesonide/ mometasone nasal spray once/twice a day for 2 weeks provides earlier symptomatic relief.
- Normal saline nasal washes help in clearing secretions and improved effect of topical medications
- Topical/ oral decongestant (Oxymetazline/ pseudoephedrine) for 3-5 days relieves symptoms.
- Adequate hydration and steam inhalation.
- Antihistaminics (patients with co-existing allergy).

INDICATIONS OF PARENTERAL ANTIBIOTIC THERAPY

- Orbital/ intracranial complications
- Non-resolution of symptoms with atleast 7 days of oral antibiotics
- Worsening of symptoms while on oral antibiotics

DISTRICT HOSPITAL

- Surgical interventions to manage:
- Underlying anatomical conditions causing recurrent acute sinusitis like- DNS/ adenoid hypertrophy/ anatomical variations seen on CT
- Ophthalmology referral for suspected intraorbital complications
- Dental deferral for suspected dental origin infection.
- Invasive fungal sinusitis- start antifungal medications, control underlying immunocompromising co-morbidity and consider debridement.

TERTIARY LEVEL

Cases of acute invasive fungal sinusitis/ complicated acute bacterial sinusitis and patients with immunocompromised status may be referred for management.

KEEP A HIGH THRESHOLD FOR INVASIVE PROCEDURES

ABBREVIATIONS

CT: Computerized tomogram
PHC: Primary Health Center

DNS: Deviated Nasal Septum
LPR: Laryngo Pharyngeal Reflux

REFERENCES

1. Indian Council of Medical Research. Treatment Guidelines for Antimicrobial Use in Common Syndromes. New Delhi, India, 2017.
2. Fokkens W, Lund V, Mullol J, et al. EPOS 2012: European Position Paper on Rhinosinusitis and Nasal Polyps 2012. Rhinol 2012;50(Suppl 23):1-298.
3. Sharma V, Saxena RK, Sharma S, Sharma G, Dhasmana DC, Mishra KC. Comparative Efficacy and safety of various anti-microbials in patients of acute rhinosinusitis at tertiary-care hospital in Uttarakhand. Indian Jour Otol Head & Neck Surg. 2011, Oct ; 63 (4): 364 - 9
4. Blomgren K, Eliander L, Hytönen M, Ylinen S, Laitio M, Virkkula P. How patients experience antral irrigation. Clin Med Insights Ear Nose Throat. 2015;8:13-7.