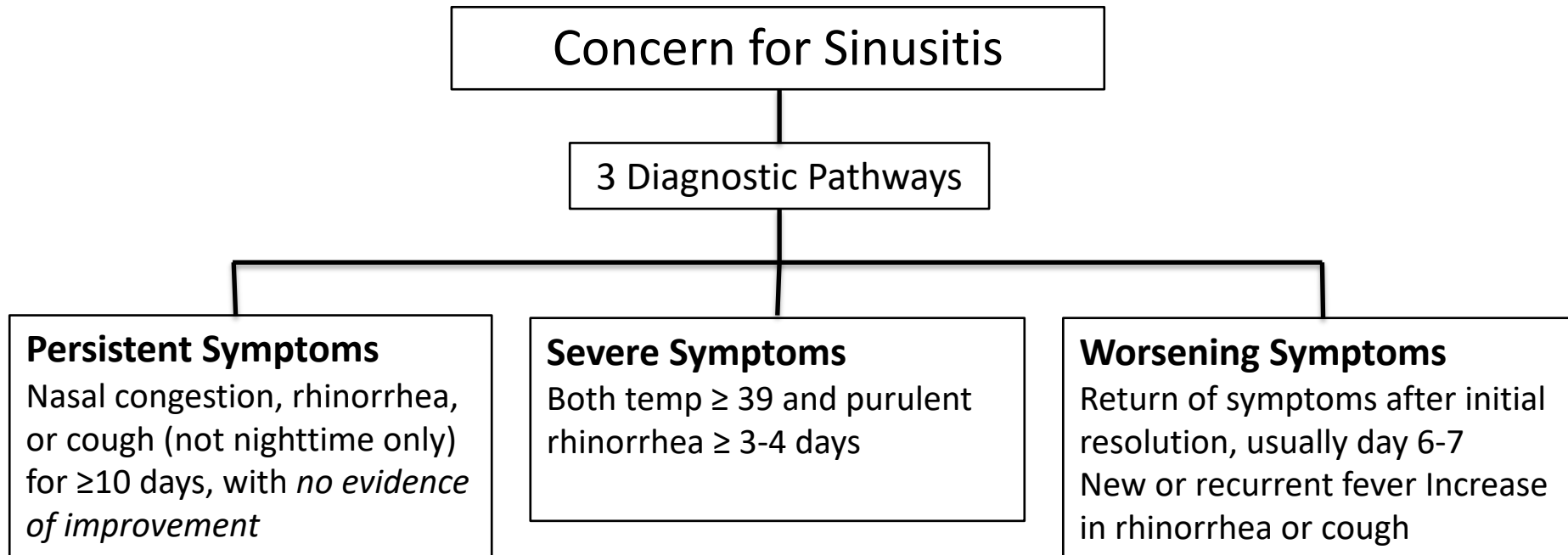


# Pediatric Sinusitis



## Treatment:

- Recommended antibiotic is Augmentin, duration of therapy 10-14 days
- In areas with high rate of penicillin resistant *S.pneumoniae*, recommend high dose 90mg/kg/day divided BID (maximum 2 gm BID)
- Alternatives: Doxycycline, 3<sup>rd</sup> generation Cephalosporin + Clindamycin, Levofloxacin
- For Persistent Symptoms pathway, may offer additional 3 days observation off antibiotics option

# Pediatric Sinusitis

- Important to differentiate from serial viral URIs or prolonged post-viral cough
  - Must be daytime cough (can still be worse at night)
  - Must be no improvement in URI symptoms at all, not improvement w/o resolution, then new URI symptoms again
- Other corroborating symptoms & signs: headache, facial pain, pain with percussion over frontal, maxillary sinuses or upper molars, post-nasal drip +/- associated sore throat, halitosis, puffy eyes esp in AM, boggy turbinates

# Pediatric Sinusitis

- Sinus development
  - Present at clinically significant size:
    - Maxillary & ethmoid at birth
    - Frontal at 3 years old
    - Sphenoid at 8 years old
  - Sinuses fully developed at 12-20 years old
- Although only a few studies exist, using a urine dipstick to test nasal secretions may be useful
- Insert a wet cotton swab 1-2cm to obtain nasal secretions and spread on a urine dipstick
- Score 4 or higher c/w bacterial sinusitis

Pts	0	1	2	3
Leuk Est	None or trace		1+	2-4+
Protein	0 or 1+	2+	3+	4+
pH	<7.5	7.5	8.0	8.5+
Nitrites	None	Light	Dark	