

Streptococcal Pharyngitis

S. pyogenes

- Hemolysis property: Beta type, complete hemolysis
- Cell wall Ag (Lancefield Ag system) → group A

Kriengsak Limkittikul
Dept. Tropical Pediatrics,
TM, MU

Clinical spectra

- **Colonization**
- **Acute pharyngotonsillitis**
- **Skin & soft tissue infection:** impetigo, erysipelas, cellulitis, necrotizing fasciitis
- **Invasive and systemic infection:** STSS, puerperal fever, scarlet fever, endocarditis, sepsis
- **Complication:**
 - Suppurative: Abscess, OM, sinusitis, lymphadenitis
 - Non suppurative: ARF, APSGN

Streptococcal: -Sore throat

NOTE:

Young child (<3 yr): mimic viral infection, abdominal pain, N&V

Older child: abrupt onset- Sore throat, fever, purulent discharge, Sore throat can be prominent on one side



Clinical Scoring

Criteria:	Point
Fever (T>38 C)	1
Absence cough	1
Swollen, tender anterior cervical node	1
Tonsillar swelling or exudate	1
Age	
3 to <15 yr	1
15 to <45 yr	0
>45 yr	-1

Score ≤ 0 : risk 1-2.5%
Score 1: risk 5-10%
Score 2: risk 11-17%
Score 3: risk 28-35%
Score >4: risk 51-53%

Diagnosis

- **Clinical:** experience, scoring system
- **Rapid test:** (sensitivity 76-85%, specificity 95%)
immunochromatography
- **Antigen testing:** latex agglutination, enzyme immunoassay
- **Culture:** specimen collection → posterior pharynx, tonsils (avoid contamination with normal flora)
- **Antibody testing:** ASO, Anti-DNase B: too late!