



Please note: There is no expert consensus on this topic. These recommendations are adapted from [this](#) UpToDate article. As always, feel free to consult a pediatric hospitalist via Tiger Connect role "Peds Wards on Duty."

Note: Children with fevers lower than 102.2 may still require evaluation/work-up, especially if medical complexity, ill appearance, or any other concerns. For fevers lasting five days or more, consider Kawasaki disease or [MIS-C](#). Consult pediatric hospitalist.

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Child 3-36 months old with <5 days of fever $\geq 102.2^{\circ}\text{F}$.

Is child toxic-appearing or in respiratory distress?

No

Is child fully immunized for PCV and HiB? (See box.)

Work-up as appropriate.

No

Is there an identifiable source listed in box?

Treat as appropriate.

Encourage caregiver update vaccines as soon as possible. If able, offer vaccines or outpatient appointment.

No

Perform work-up:
• CBC with differential
• Procalcitonin
• Blood culture
• Urinalysis and urine culture
• CXR

Note: The presence of AOM or viral URI does not decrease the risk of occult bacteremia. Thus, an underimmunized child with viral URI should still undergo this work-up; a work-up should be considered if the source is deemed to be AOM.

Identifiable Sources

Bacterial:

- Cellulitis and/or abscess
- Bone or joint infection
- Acute suppurative otitis media (see note to left)

Viral:

- Croup
- Influenza
- Herpetic stomatitis
- Hand-foot-mouth disease
- COVID-19
- Kawasaki disease

Is ANC $>10,000$ OR is procalcitonin >0.5 ?

Yes

No

• Consider LP. May consult pediatric hospitalist.
• Give ceftriaxone 50 mg/kg IV or IM.

• Treat UTI if present. (See [guideline](#).)
• If child is well-appearing, is well-hydrated and tolerating PO intake, and has reliable caregivers, discharge with daily follow-up until blood culture is negative at 36 hours or sooner for any worsening.

Haemophilus influenzae Type A (HiA)

- There is a [high prevalence of HiA in rural Alaska](#). Our region has had several pediatric deaths due to HiA in the past five years.
- There are few evidence-based recommendations, as this is rare elsewhere.
- Children with HiA can have meningitis, septic arthritis, severe cellulitis, necrotizing fasciitis, osteomyelitis, pneumonia, and isolated bacteremia.
- In most of the local cases, the child had a fever >104 at some point in the course.
- Children with history of HiA are at risk for recurrence, especially in the first year after initial presentation. These children should have blood cultures drawn with any fever (>100.4) until at least 12 months after the initial infection.
- YKHC pediatricians recommend that any child with a fever $\geq 104^{\circ}\text{F}$ be considered at risk for HiA. Blood culture is not mandatory but should be considered. Good follow-up must be assured.

"Fully Immunized"

If children are under-immunized for pneumococcus (PCV) or *Haemophilus influenzae* type B (HiB), they are at a higher risk for occult bacteremia. Check vaccination status in the Immunization History tab in RAVEN and on VacTrAK for all febrile children.

• **PCV:** YKHC uses the Prevnar 20 vaccine. The recommended schedule is 2 months, 4 months, 6 months, and 12-15 months. **Children are considered "fully immunized" if they have received three doses by one year and four doses thereafter.** If series was started late or interrupted, consult [CDC vaccine schedule](#) to determine if child is "fully vaccinated."

• **HiB:** YKHC uses the PedVaxHib vaccine. The recommended schedule is 2 months, 4 months, and 12-14 months. **Children are considered "fully immunized" if they have received two doses by one year or three doses thereafter.**
Exceptions:
- If first dose was given at 12-14 months, a second dose will be given >8 weeks for a total of two doses.
- If first dose was given at >15 months, no further doses are required.

NOTE: Some experts consider all children <6 months under-immunized and recommend a cautious approach. If choosing not to do a work-up, child must be followed daily until improvement is documented.