# Fever (Age 0-5)

# Definition

- Your child has a fever if:
- Rectal, Ear or Forehead temperature: 100.4° F (38.0° C) or higher
- Oral or Mouth temperature: 100° F (37.8° C) or higher
- Under the arm (Armpit) temperature: 99° F (37.2° C) or higher
- Caution: Ear temperatures are not accurate before 6 months of age
- Excluded Age: birth to 3 months. These babies need to be seen if they have fever.

## Health Information

#### Causes

- Main cause: colds and other viral infections.
- Fever may be the only symptom for the first 24 hours. This often occurs with a viral illness. The start of symptoms (runny nose, cough, loose stools) is often delayed. In the case of Roseola, fever may be the only symptom for 2 or 3 days.
- Most often, you won't know the cause of the fever until other symptoms develop. This may take 24 hours.
- Bacterial infections (as with a Strep throat or a kidney infection) also cause fever.
- Teething does not cause fever.

## Fever and Crying

- Fever on its own shouldn't cause much crying.
- Frequent crying in a child with fever is caused by pain until proven otherwise.
- Hidden causes can be ear infections, kidney infections, and sore throats.

## Normal Temperature Range

- Rectal or Forehead. A reading of 98.6° F (37° C) is just the average temp. A normal low can be 96.8° F (36° C) in the morning. It can change to a high of 100.3° F (37.9° C) late in the day. This is a normal range.
- By mouth. A reading of 97.6° F (36.5° C) is just the average mouth temp. A normal low can be 95.8° F (35.5° C) in the morning. It can change to a high of 99.9° F (37.7° C) late in the day. This is a normal range.

# Care Advice

#### 1. Overview:

- Having a fever means your child has a new infection.
- It's most likely caused by a virus.
- You may not know the cause of the fever until other symptoms develop. This may take 24 hours.
- For sick children, most fevers are good. They help the body fight infection.
- Use the ranges below to help put your child's level of fever into perspective:
- 100°-102°F (37.8°- 39°C) Low grade fevers: Helpful. Don't treat.
- 102°-104°F (39°- 40°C) Moderate fevers: Still helpful. Treat if causes discomfort.
- 104°-105°F (40°- 40.6°C) High fevers: Always treat. Some patients need to be seen.
- Over 105°F (40.6°C) Less than 1% of fevers go this high. All these patients need to be examined. Always treat the fever.

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#### 2. Fever Medicine:

- Fevers only need to be treated with medicine if they cause discomfort. That means fevers above 102°F (39°C).
- Also use for shivering (shaking chills). Shivering means the fever is going up.
- Give acetaminophen (such as Tylenol) or ibuprofen (such as Advil). See the Dose Tables.
- Goal of treatment: Bring the temperature down to a "good fever" level (100-102°F). Most often, the fever meds lower the fever by 2° to 3°F (1 1.5°C). They do not bring it down to normal. Also, it takes 1 to 2 hours to see the effect.
- Do not use aspirin. Reason: Risk of Reye syndrome, a rare but serious brain disease.
- Children do not need to take both acetaminophen and ibuprofen together.

### 3. Treatment for All Fevers - Extra Fluids:

- Fluids alone can lower the fever. Reason: Being well hydrated helps the body give off heat through the skin.
- Offer your child extra water or other fluids by mouth. Cold fluids are better. Until 6 months old, only give extra formula or breastmilk.
- For all children, dress in 1 layer of clothing, unless shivering. Reason: Also helps heat loss from the skin.
- Caution: If a baby under 1 year has a fever, never overdress or bundle up. Reason: Babies can get over-heated more easily than older children.
- For fevers 100°-102° F (37.8° 39°C), fever meds are not needed. Fevers of this level turn on the immune system. They help the body fight the infection.
- Exception: If you feel your child also has pain, treat it as needed.

## 4. Warm Clothes for Shivering:

- Shivering means your child's temperature is trying to go up.
- It will continue until the fever levels off, usually at 104 F or lower.
- Wrap your child in a blanket until he stops shivering.

### 5. Sponging:

- Note: Sponging is an option for high fevers, but rarely needed.
- When to Use: Fever above 104° F (40° C) AND doesn't lower with fever meds. Always give the fever med 1 hour or more to work first.
- How to Sponge: Use lukewarm water (85 90° F) (29.4 32.2° C). Sponge for 20-30 minutes.
- If your child shivers or becomes cold, stop sponging. Other option: You can also make the water warmer.
- Caution: Do not use rubbing alcohol. Reason: Can cause a coma.

#### 6. What to Expect:

- Most fevers with viral illnesses range between 101° and 104° F (38.4° and 40° C).
- They may last for 2 or 3 days.
- · Again, fevers at this level are not harmful.

# 7. Return to School:

- Your child can return to school after the fever is gone.
- Your child should feel well enough to join in normal activities.

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# Call Your Doctor If

- Age under 3 months
- Your child looks or acts very sick
- Any serious symptoms occur, such as trouble breathing
- Fever goes above 104° F (40° C)
- Fever without other symptoms lasts more than 24 hours and age less than 2 years
- Fever lasts more than 3 days (72 hours)
- You think your child needs to be seen
- Your child becomes worse

Pediatric Care Advice

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