

# Paediatric Fever

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# Introduction

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Most common paediatric presentation to ED

When is it a fever ?

How do we get it?

EXOGENOUS

ENDOGENOUS

# Introduction

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Why do we get it?

Beneficial !

Higher temperatures inhibiting growth/replication of pathogens

Higher temperatures promoting the immune response to infection

Bacteria are killed more easily by antibiotics at higher temperatures, so there is also a potential third mechanism.

# Introduction

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## Fever vs reason

“The majority of children under 2 years of age with a high fever have a viral illness. About 3% of children under 2 years with a rectal temperature of  $> 38.9^{\circ}\text{C}$  have a potentially serious bacterial infection.

## Vaccines

Neisseria, pneumococcal, Hib







# Paracetamol

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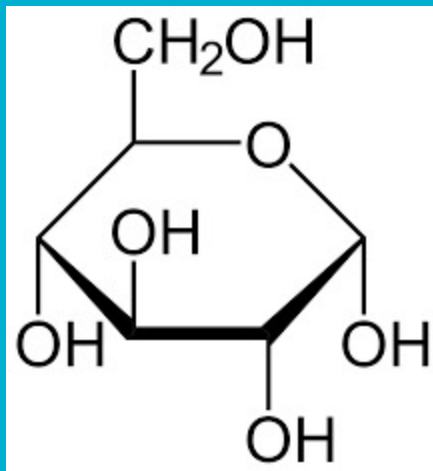
- Fever does not predict serious bacterial illness
- There is no evidence suggesting repeated measures of temperature are helpful. Therefore we should not 'routinely' repeat temperature measurement
- The height of the fever does not significantly change the risk of serious bacterial illness.
- Initial temperature measurement may help to inform us of the type of diagnosis
- However, independent of temperature recording, if child is:  
Miserable (+/- febrile) - treat with antipyretic/analgesic  
Happy (+/- febrile) - don't treat with antipyretic/analgesic
- If a child is febrile initially, there are very few situations where repeat measurements are likely to be required. If there is uncertainty about the diagnosis or a prolonged history of illness, repeated temperature measurements may be required. These should be specifically requested by the clinician (it is anticipated this will be a small percentage of children presenting to CED).
- If a child is afebrile initially, temperature measurements should be repeated only if there is diagnostic uncertainty (these should be specifically requested by the clinician).
- If an initially afebrile child becomes miserable, then they will need analgesia regardless of their temperature.



# Sepsis

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1. Early recognition
2. Rapid vascular access: Intravenous (IV) or intraosseus (IO) access within 5 minutes
3. Empiric antibiotic therapy: as soon as possible after access obtained
4. Rapid, judicious, fluid resuscitation: 20ml/kg fluid boluses of isotonic crystalloids (e.g. Normal saline or Plasma-Lyte 148) or albumin 4%
5. Early initiation of inotropes via peripheral access if shocked and not fluid responsive. Transfer to PICU as soon as possible
6. Source control (if possible): For example, to operating theatre as soon as stabilised if suspected abdominal source



# SIRS

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Temperature

> 38.5, < 36.0

Tachycardia, bradycardia

Tachypnoea, ventilatory support

Raised/depressed white cell count

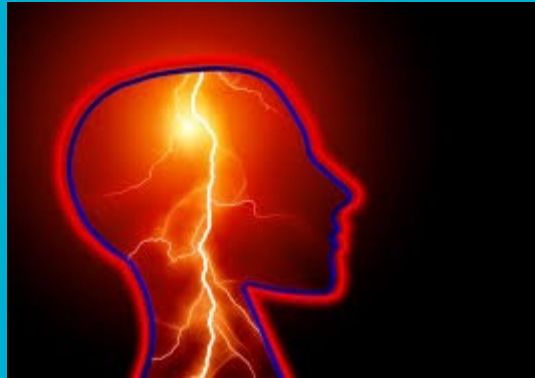
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## Myths

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Higher temperature indicates a serious infection

## Myths

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Unrelieved temperature by  
antipyretics indicates a serious  
bacterial infection



# Myths

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Rigours indicate a serious infection

## Myths

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You must be afebrile before hospital discharge

# Myths

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Fevers need antipyretic treatment

# Myths

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Dont use antipyretics in fever

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 Oxford Dictionaries

Word of the Day

18/07/18

**afebrile (adj.)**

/əfɪˈbrɪl/

Not feverish.