

Paediatric Clinical Practice Guideline



Febrile convulsion

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See also: Fever no focus in under 5s / Paediatric sepsis 6

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Background

Meningitis / encephalitis may cause seizures and fever and must be considered and excluded in any child presenting with a febrile convulsion.

- Febrile convulsion = seizure in an otherwise neurologically normal child aged 6 months – 6 years associated with a fever caused by infection or inflammation outside the CNS.
- May be confused with rigors, apnoea, syncope
- Common causes of fever in children presenting with febrile convulsions:
 - Viral infection such as URTI, roseola, chicken pox etc.
 - Otitis media, tonsillitis, gastroenteritis
 - UTI, LRTI
 - Post-immunisation

Simple febrile convulsions	Complex febrile convulsions
 Isolated, generalised tonic-clonic seizures 	Focal onset or focal features during fit
 Duration < 15 minutes 	 Duration > 15 minutes
Do not recur within 24 hours or in same febrile illness	Recurrence within 24 hours or in same febrile illness
	 Incomplete recovery within 1 hour

Assessment

Actively fitting on assessment? Assess A, B, C, D, E and don't ever forget glucose. Follow seizure / status epilepticus management guidelines.

Not actively fitting?

Explore in history:

- Pre-fit state: neurologically normal? Drowsy / meningitic? Illness symptoms?
- Parents' perception of fever
- Seizure details: onset, duration, any focal features, recovery time

Examine for signs of serious underlying cause for fever (see fever no focus in under 5s):



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- Neck stiffness, photophobia, Kernig's sign, petechial rash, bulging fontanelle, focal neurological signs, decreased level of consciousness.
- Sepsis (see sepsis 6)
- pneumonia

Look for tonsillitis, otitis media, viral exantham, etc.

Urine dip (+ forced culture in under 1 year) if no clear focus found on assessment.

Bloods: FBC / CRP / Blood culture *consider if child is unwell or no focus found on assessment.*

CXR *if clinical suspicion of pneumonia*

Management

See flow chart on page 3

Discharge and follow up

When to consider follow up (discuss with CED consultant):

- After 4 separate episodes of fever with convulsion or any atypical features

Discharge advice (use leaflet):

- Febrile seizures are not the same as epilepsy. The risk of epilepsy developing later is low but slightly higher than the general population.
- Short-lasting seizures are not harmful to the child.
- About 1 in 3 children will have another febrile seizure.

Inform parents what to do if a further seizure occurs. They should:

- Protect child from injury during the seizure and not restrain them or put anything in their mouth.
- Check their airway and place them in the recovery position when the seizure stops.
- Explain that the child may be sleepy for up to an hour after the seizure.
- Seek medical advice (GP / 111) if a seizure lasts for less than 5 minutes.
- If seizure continues for more than 5 minutes **call an ambulance**.

Advise parents about managing fever, but explain that reducing fever does not prevent recurrence.

Advise parents to continue immunizations even if the febrile seizure followed an immunization.





Management flow chart

