

FEBRILE SEIZURES



- 2-4 % of children between 6/12 and 5 years old
- Peak incidence between 12-18mo
- Male to female ratio of 1.6:1
- Associated with fever
- Children admitted to paediatric wards

CRITERIA FOR FEBRILE SEIZURES

- A convulsion associated with an elevated temperature >38°C
- Age > 6/12 and < 5 years</p>
- Absence of CNS infection
- No metabolic abnormality associated with convulsions
- No history of previous afebrile seizures

RISK FACTORS

- Age
- Fever
- Viral infection (HHV-6, adenowirus, RSV, influenza)
- Recent immunization (MMR, DTP)
- Family history of febrile seizures

SIMPLE FEBRILE SEIZURES

- Generalized seizures lasting less than 10 mins
- Not recurring in 24-hour period
- Recur in ~1/3 of children during early childhood
- Benign phenomenon
- Risk of future epilepsy slightly higher than the general population

SIMPLE FEBRILE SEIZURES PLUS

- > I episode in 24-h
- Generalized
- Without neurologic abnormalities between episodes

COMPLEX FEBRILE SEIZURES

- Focal onset or
- Prolonged (> 15min.) or
- Recur within the first 24 hours
- a ↑ risk of recurrence during early childhood and an ↑likelihood of future afebrile seizures

SIMPLE & COMPLEX SEIZURES

SIMPLE FERBILE SEIZURES

COMPLEX FEBRILE SEIZURES

< 10 mins

>15 mins

Ix / 24 h

>= 2x / 24 h

Tonic -clonic

Focal

Otherwise <u>heathy</u> <u>child</u>

Signs of <u>CNS</u> infection

DIFFERENTIAL DIAGNOSIS

Shaking chills — involuntary movements characterized by fine, rhythmic, symmetrical oscillatory movements about a joint.

- they rarely involve facial or respiratory muscles
- not associated with loss of consciousness

Central nervous system infection

- seizures are usually focal/status epilepticus
- other signs & symptoms (headache, vomiting, ICP, meningeal signs, altered consciousness, petechial rash)

MANAGEMENT IN FEBRILE SEIZURES

- History of simple febrile seizure and a reassuring about nonfocal exam,
 diagnostic testing is unnecessary
- Diagnosis of the underlying febrile illness
- Parents' education (antypyretic drugs, non-farmacological methods)

LP IN FEBRILE SEIZURES-WHEN?

- Children < 12 months of age special consideration</p>
- If immunizations for H.i. type b or S. pneumoniae are not up to date or cannot be verified
- Generaly unwell patients
- Patient is on antibiotics
- Symptoms of CNS inflammation

TREATMENT

- Drug of first choice benzodiazepines iv/pr
 - AIM: stop convulsions
 - if iv access- give iv
 - if no iv access- give pr:
 - < 15 kg 5mg</p>
 - > 15 kg 10 mg
- Antipyretic drugs (paracetamol)
- Oxygen (mask) if ↓ SaO2

TAKE HOME MASSAGE

Children with febrile seizures are:

typically well appearing

 post-ictal drowsiness usually resolves within 5 to 10 min.