

# Fits and Funny turns

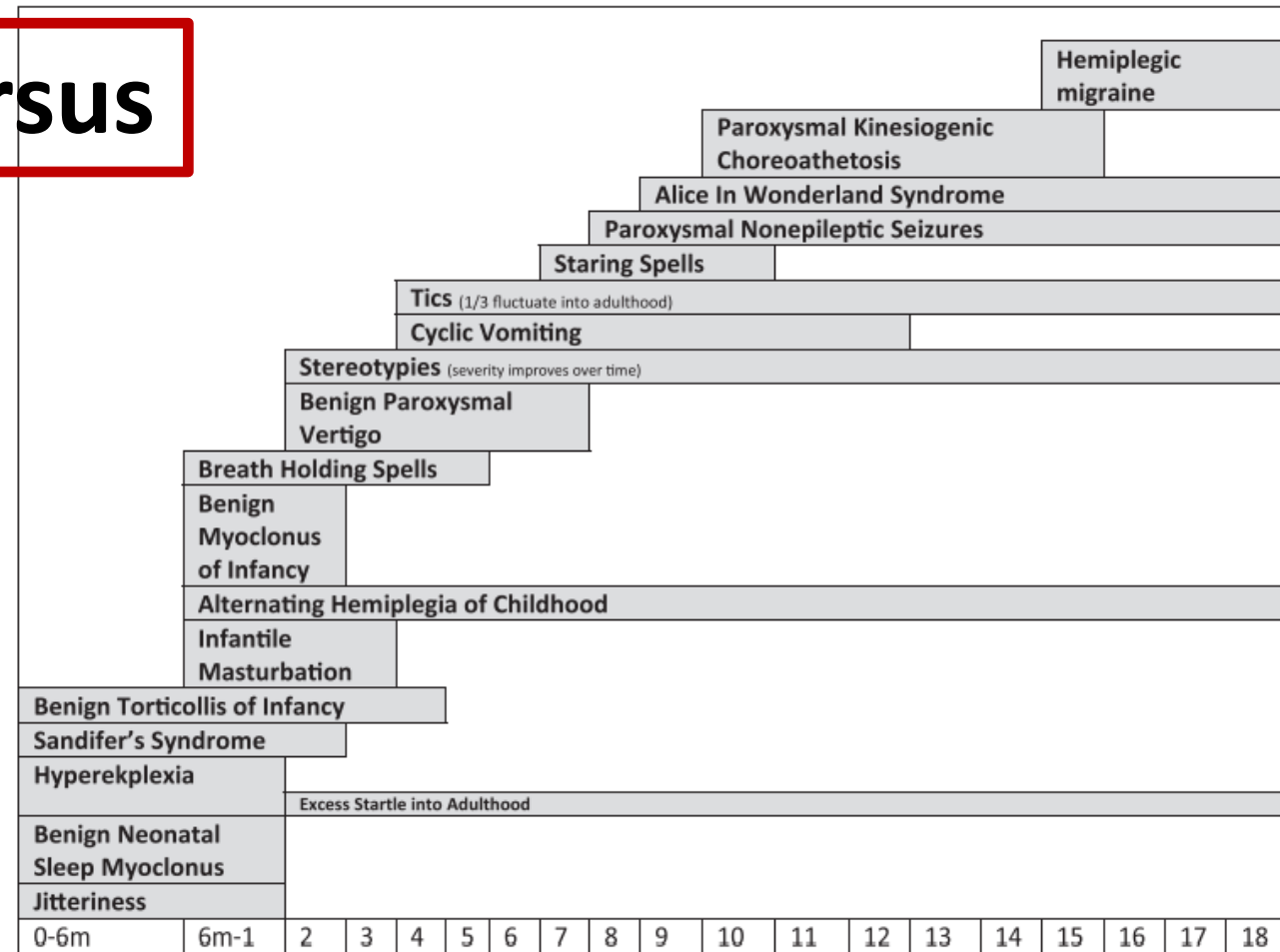
A Silwal

Paediatric Neurologist

# Epilepsy

**Versus**

- Common neurological disorder
- Affects 0.5-1% during childhood
  - 63,400 – epilepsy Δ
- Different clinical manifestations
  - >40 different epilepsy, seizure type
- Clinical diagnosis



**Figure 1.** Age ranges (months and years) of seizure mimics, typical onset and resolution.

# Misdiagnosis

- Hindley et al – Epilepsy diagnosis only in 23% of children referred for fits, faints, funny turns
- Uldall et al - 39% of those referred to the Danish Epilepsy Centre did not have epilepsy
- Leicester enquiry misdiagnosed 618/1948 (31.7%) children as having epilepsy

## Diagnosis in “fits, faints and funny turns” clinics

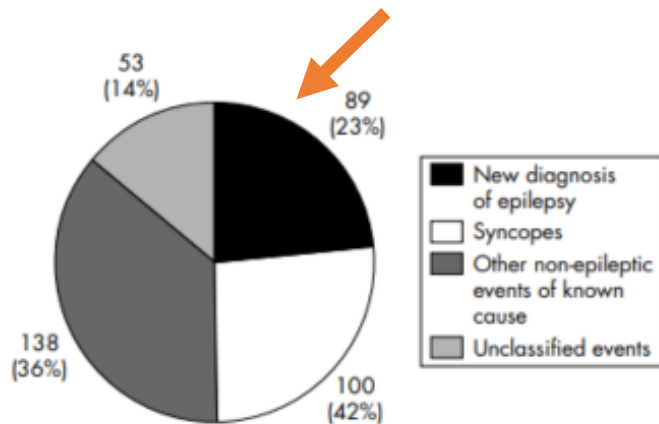


Figure 1 Categories of diagnoses (n=380).

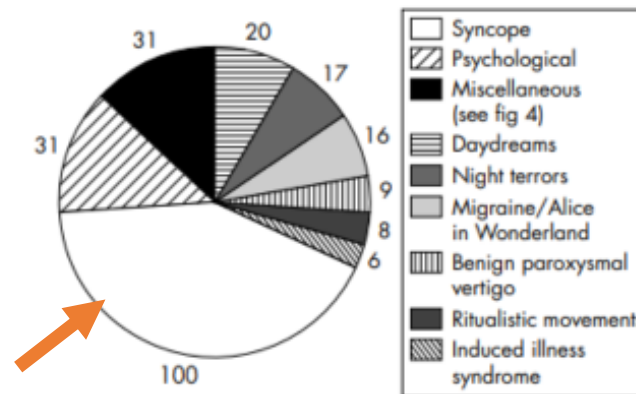


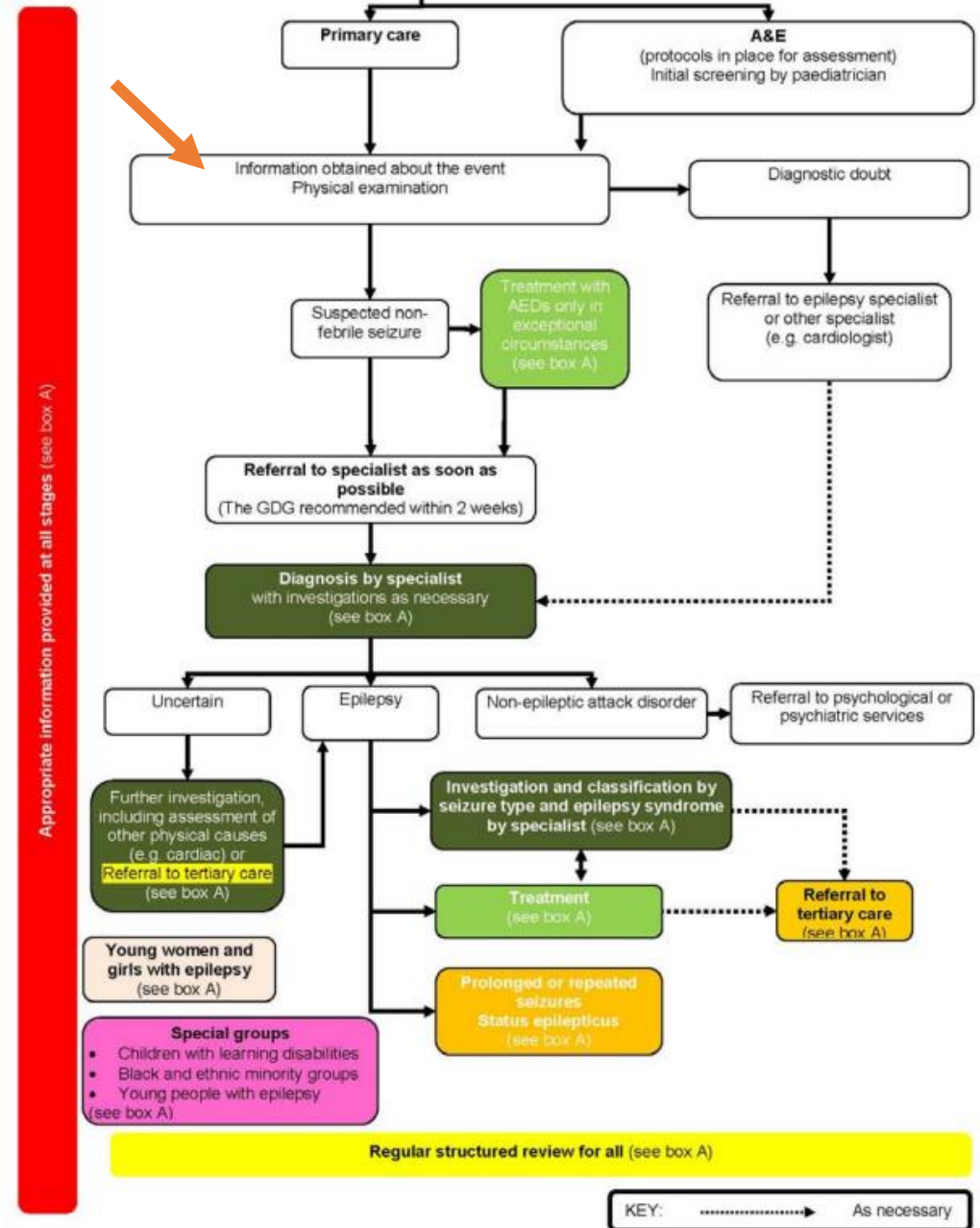
Figure 3 Non-epileptic diagnoses (n=238).

## Impact of wrong diagnosis

- Unnecessary investigation
- Wrong treatment / SE of treatment
- Impact on physical, social well being
- Cost / Medico-legal implications

# Outline care algorithm for children

Detailed event (ictal) history – **Semiology of events**  
Pre - During – Post



# Pre event

- Timing, where
- What was child doing - awake/asleep/eating, playing video games

**Any warning (aura)** - abdominal discomfort, fear, unpleasant sensations, seeing lights, duration

## Triggers:

- Only in sleep
- Feeds related
- Situational/boredom
- Exercise or movement
- Unwell or sick prior episode (fever)
- With excitement or emotion
- Following unpleasant stimuli
- Flashing lights / Alcohol / drug use or medication change

**Table 3** Localising value of auras

Aura	Localisation
<b>Somatosensory</b>	
Marching sensory aura	Primary sensory cortex
Tingling, numbness	Primary or secondary somatosensory cortex, supplementary motor area, insula
Pain/ warmth	Secondary somatosensory cortex, insula
<b>Visual aura</b>	
Elementary (lights, shapes)	Primary visual cortex
Illusions/ distortions	Temporo-parieto-occipital
Complex visual hallucinations	Temporal
<b>Auditory</b>	
Elementary	Heschl's gyrus, superior temporal
Illusions/distortion	Lateral temporal, insula
<b>Other</b>	
Gustatory	Insula, mesiotemporal
Olfactory	Insula, mesiotemporal, orbitofrontal
Vestibular	Posterior temporal, parietal
Autonomic	Insula, amygdala, cingulate

Chowdhury FA, Silva R, Whatley B, *et al*  
Localisation in focal epilepsy: a practical guide.  
*Practical Neurology* 2021;21:481-491

# Event description

## What were the movements

- Clonic – sustained rhythmical jerking
- Tonic - muscles stiffen and tense
- Atonic - sudden loss of muscle tone
- Myoclonus – sudden lightening like jerk, lasts milliseconds
- Spasm - sudden flexion, extension or both of proximal and truncal muscles (1-2 seconds)
- Absences – vacant stares, brief
- Automatism – purposeless, stereotypical movements – chewing, picking at clothes

- State of awareness
- Ability to talk, understand
- Change in colour
- Eyes: open, closed, uprolled, deviated
- Arms / legs: which side
- Associated features: frothing, tongue bite, change in breathing pattern, incontinence

Length of event, frequency

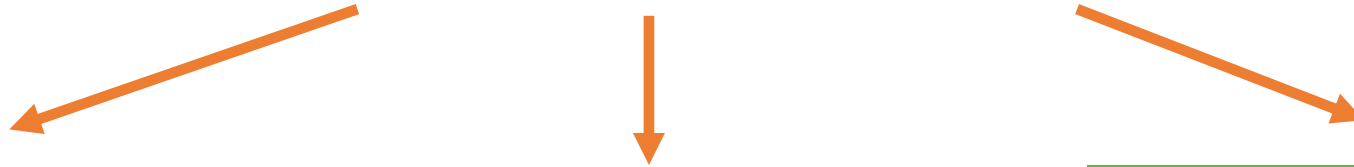
# Post Event

Duration - how long before child returned to normal activity

- Response to voice/touch
- Able to talk or communicate
- Memory for events
- Weakness or numbness or headache
- Tired, sleepy

# Scenarios

## First Jerking episode



### 8 year old

#### Pre-event:

- Standing in assembly at school
- Early morning during heat wave
- Darkening of vision, felt clammy

#### Trigger:

- Was well when went from home

#### Event:

- Fell down to the side
- Few body shakes
- Eyes closed
- Lasted 1 min

#### Post event:

- Tired and sleepy 15-20 min

Syncopal event

### 2 year old

#### Pre-event:

- Having temperature and runny nose, given calpol

#### Trigger:

- Febrile illness

#### Event:

- Eye rolling
- 2-3 minutes of body jerks
- Blue on face with frothing

#### Post event:

- Tired and sleepy 15-20 min

Febrile seizure

### 6 year old

#### Pre-event:

- Was out with parents on weekend, forest trail, eating lunch

#### Trigger:

- Was well the previous night, though slept late

#### Event:

- Jerking of whole body suddenly
- Eyes deviated to one side
- Frothing, gurgling noises
- Lasted 3 min

#### Post event:

- Tired and sleepy 15-20 min

First afebrile seizure

# Assessment

## Other history:

- Perinatal history (HIE /stroke)
- Significant past history (head injury / infection)
- Developmental history
- Learning and Schooling
- Family history - consanguinity

## Examination:


- Vitals – temp, HR, RR, BP, Sats
- Growth parameters – weight, HC
- Skin markings, Distinctive features
- Developmental stage
- Signs of meningeal irritation
- Signs of raised ICP
- Systemic examination (inc cardiac)
- Neurology examination

- Video of the event

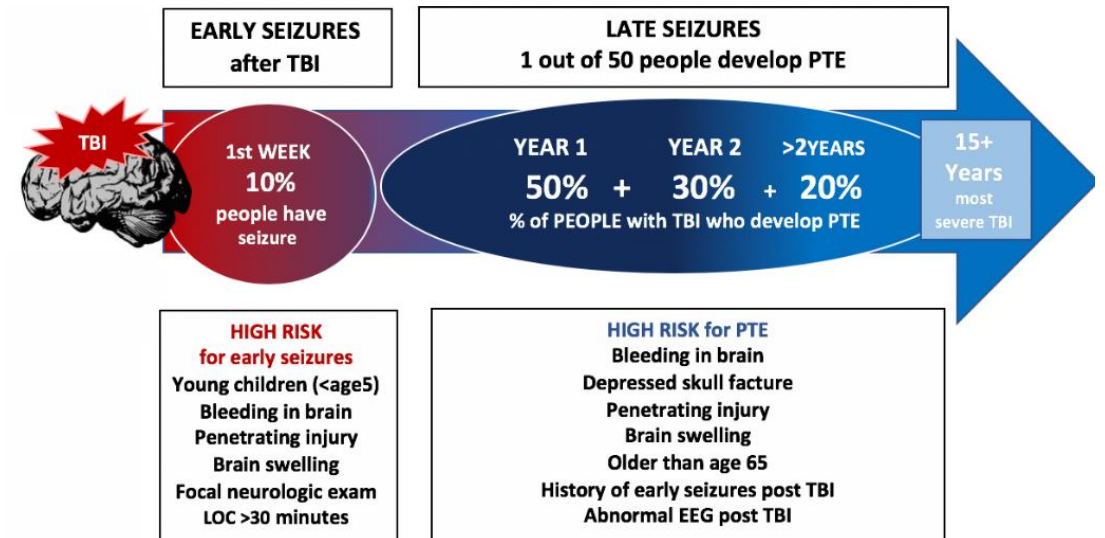
### Effects of HIE

Some of the effects from HIE may include:

- + Developmental delays
- + Epilepsy
- + Cerebral palsy
- + Cognitive issues
- + Motor skill development delays
- + Neurodevelopmental delays



Birth Injury Guide





# Investigation

- FBC, UEs, Blood glucose and gas, Ca, Mg, clotting
- CRP, blood cultures, urine dip
- Lumbar puncture
- Metabolic – lactate, ammonia, amino acids, urine organic acids
- Urine toxicology
  
- ECG
  
- Imaging
  - Acute symptomatic seizure – CT scan
  - MRI : (specialists)
    - epilepsy <2 years
    - focal onset on history, examination or EEG (unless clear evidence of self-limited focal epilepsy)
    - Seizure continue despite first-line medication



# EEG

- Variable specificity (78% to 98%) and sensitivity (26% to 56%)
  - Positive (epileptiform discharges) – support (caution: false +)
  - Negative - cannot exclude
- Requested after second epileptic seizure (after first by specialists)
- Inform seizure type and epilepsy syndrome
- Help to assess risk of recurrence
- Improve diagnostic yield
  - Sleep induced /deprived EEG

## **Do**

- EEG requested to support a diagnosis of epilepsy where suspicion of epileptic seizure

## **Don't**

- EEG should not be used to exclude a diagnosis of epilepsy

# Management

- Depends on the cause

## EPILEPSY IMITATORS

1. OVERVIEW
2. SYNCOPE AND ANOXIC SEIZURES
  - a. Vasovagal syncope
  - b. Reflex anoxic seizures
  - c. Breath-holding attacks
  - d. Hyperventilation syncope
  - e. Compulsive valsalva
  - f. Neurological syncope
  - g. Imposed upper airways obstruction
  - h. Orthostatic intolerance
  - i. Long QT and cardiac syncope
  - j. Hyper-cyanotic spells
3. BEHAVIORAL, PSYCHOLOGICAL AND PSYCHIATRIC DISORDERS
  - a. Daydreaming /inattention
  - b. Self gratification
  - c. Eidetic imagery
  - d. Tantrums and rage reactions
  - e. Out of body experiences
  - f. Panic attacks
  - g. Dissociative states
  - h. Non-epileptic seizures
  - i. Hallucinations in psychiatric disorders
  - j. Fabricated / factitious illness
4. SLEEP RELATED CONDITIONS
  - a. Sleep related rhythmic movement disorders
  - b. Hypnogogic jerks
  - c. Parasomnias
  - d. REM sleep disorders
  - e. Benign neonatal sleep myoclonus
  - f. Periodic leg movements
  - g. Narcolepsy-cataplexy
5. PAROXYSMAL MOVEMENT DISORDERS
  - a. Tics
  - b. Stereotypies
  - c. Paroxysmal kinesigenic dyskinesia
  - d. Paroxysmal nonkinesigenic dyskinesia

## Syncope and anoxic seizures

- Transient loss of consciousness, abrupt blood flow and oxygen supply to brain
- Can be collapse, stiffening or tonic-clonic movements - not due to epileptic discharges
- e.g – Reflex anoxic – early infancy following painful stimuli, good prognosis

## Benign neonatal sleep myoclonus

- Movements seen in neonatal period and thereafter for months, in sleep
- Brief flurries of jerking of one limb or other
- Normal examination and development

## Tics

- Involuntary, sudden, repetitive movements
- common in childhood
- compulsive urge and suppressibility

Review videos  
ECG  
Reassurance

Not Epilepsy  
Do not trial anti-epileptic drug  
If unsure - refer

## Acute symptomatic seizure

- Secondary to acute CNS insult
- may be metabolic, structural, infectious, or inflammation
- E.g – within a week of stroke, meningitis, HIE
- Unlikely to be recurrent

## Febrile seizures

- Seizure in child 6 m – 6 y with fever
- Simple (GTC, <15 minutes, not recur within same febrile illness) versus Complex
- Management
  - Investigate underlying cause
  - Antipyretics; Seizure first aid
  - Risk of recurrence

# First afebrile seizure

- Seizure first aid
- Information leaflet

## Risk of recurrence after a first tonic-clonic seizure

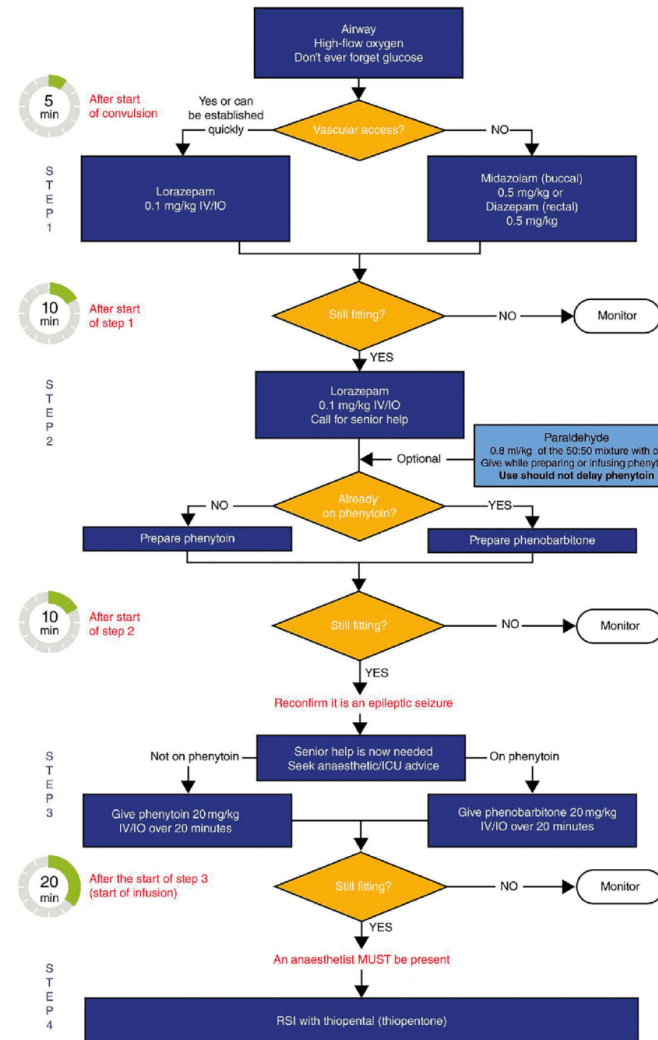
- 36–52%
- meta-analysis 2 year risk of recurrence ~ 40%

## Predictors of recurrent seizures

- remote symptomatic etiology
- abnormal neurologic examination
- Intellectual disability
- epileptiform discharge on EEG
- focal onset seizures

Hamiwka, L.D., Singh, N., Niosi, J. and Wirrell, E.C. (2007), Diagnostic Inaccuracy in Children Referred with "First Seizure": Role for a First Seizure Clinic. *Epilepsia*, 48: 1062-1066.

- Emergency medication
- Referral to first fit clinic



Advanced Paediatric Life Support-Status Epilepticus Algorithm

**Young Epilepsy**

## Seizure first aid

**Time the seizure**

- Time the duration of the seizure
- Let the seizure run its course

**Keep the person away from hazards**

- Move any hazards out of the way
- Cushion their head
- Make sure nothing hinders their breathing
- Guide them away from danger (focal seizures)

**Don't restrict their movements**

**Stay with them**

**Make a record of what happens**

**Call 999 for an ambulance if...**

**RCPCH**  
Royal College of Paediatrics and Child Health  
Leading the way in Children's Health

**Following a first seizure without a fever in children and young people**

**Information for parents and carers** **First seizure First safety-net**

**Introduction**

Seeing a child or young person having a seizure can be frightening. Most seizures do not cause serious harm.

This leaflet has been given to you because you are a parent or carer of a child or young person who has had a first seizure that was NOT considered to be a 'febrile convulsion'.

**What is a seizure?**

A seizure is a sudden disturbance in the brain that affects how a person appears or acts. Seizures, and how your child recovers after them, can vary from one child to another.

Sometimes, people call seizures fits, convulsions, attacks or episodes. They vary from child to child, from being quite noticeable events for some to 'going blank and staring' for others.

One type of seizure is an epileptic seizure. There are many different types of epileptic seizures, and sometimes children can have events that look very similar to an epileptic seizure, but they are not. These include faints, tics, daydreams, sleep disorders and breath-holding attacks.

**Is it epilepsy?**

If your child has had only one seizure, it does not always mean they have epilepsy. Some children will never have another one.

If your child goes on to have more seizures, then further medical review with a paediatrician will be needed to confirm epilepsy. An appropriate plan of care can then be agreed and started.

**First aid for a convulsive seizure**

A convulsive seizure is where the child is stiff or shaking. The information below can help you to focus when your child is having a seizure. It can help you to give first aid to keep them safe.

**Do**

- Stay calm
- Protect them from injury (remove harmful objects from nearby)
- Cushion or gently hold your child's head to protect them from head injury
- Note the date and time the seizure started – if stiffness and / or jerking continues for 5 minutes or more you should call 999 for an ambulance



# Epilepsy

## 1.1 Definition of epilepsy

2004

An epilepsy is defined as a neurological condition characterised by recurrent epileptic seizures unprovoked by any immediately identifiable cause. An epileptic seizure is the clinical manifestation of an abnormal and excessive discharge of a set of neurons in the brain <sup>1</sup>.

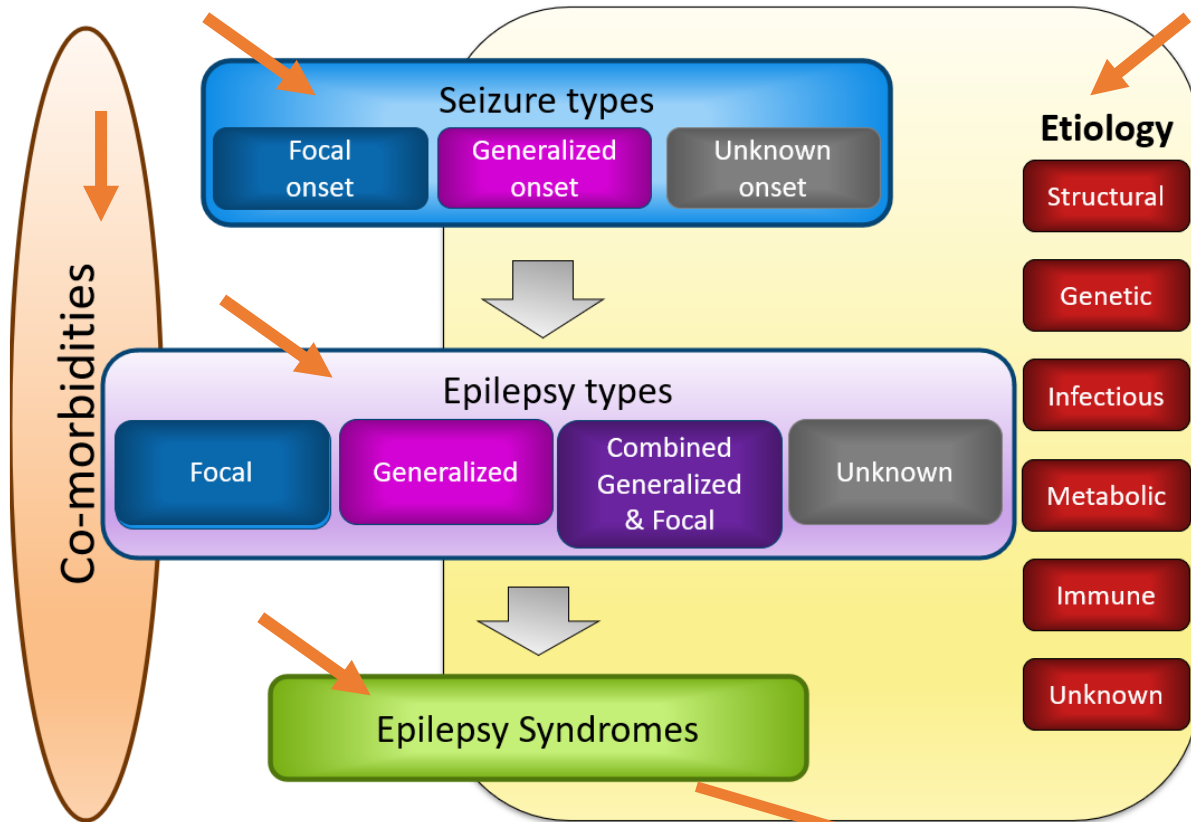
Epilepsy should be viewed as a symptom of an underlying neurological disorder and not as a single disease entity. The term 'epilepsies' is used in the title of the guideline to reflect this.

### Practical Definition of Epilepsy

**Table 2. Operational (practical) clinical definition of epilepsy**

Epilepsy is a disease of the brain defined by any of the following conditions

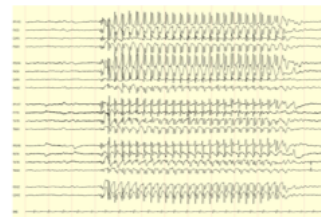
1. At least two unprovoked (or reflex) seizures occurring >24 h apart
2. One unprovoked (or reflex) seizure and a probability of further seizures similar to the general recurrence risk (at least 60%) after two unprovoked seizures, occurring over the next 10 years
3. Diagnosis of an epilepsy syndrome



Focal Onset		Generalized Onset	Unknown Onset
Aware	Impaired Awareness		
<b>Motor Onset</b> automatisms atonic <sup>2</sup> clonic epileptic spasms <sup>2</sup> hyperkinetic myoclonic tonic		<b>Motor</b> tonic-clonic clonic myoclonic myoclonic-tonic-clonic myoclonic-atonic atonic epileptic spasms <b>Nonmotor (absence)</b> typical atypical myoclonic eyelid myoclonia	<b>Motor</b> tonic-clonic epileptic spasms <b>Nonmotor</b> behavior arrest
<b>Nonmotor Onset</b> autonomic behavior arrest cognitive emotional sensory			<b>Unclassified</b> <sup>3</sup>
focal to bilateral tonic-clonic			

**Childhood absence epilepsy**

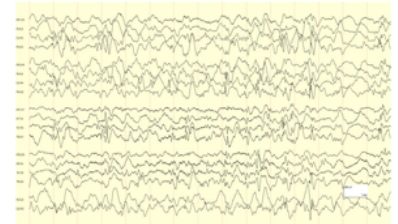
- 2 to 12 years (peak 5-6 years)
- Multiple, brief daily absences
- 2.5 - 3.5 Hz generalized spike-and-wave



- Normal past history, development and examination
- high likelihood of seizures spontaneously remitting
- Rx - Ethosuximide

**West syndrome**

- Epileptic spasms between 3 and 12 months of age
- Hypsarrhythmia on EEG



- May or may not have underlying cause (HIE, syndromic – Down's)
- Global developmental delay with or without regression at seizure onset
- Rx – Steroids and/or Vigabatrin

Classification example : Generalized epilepsy with absence seizures with no identified cause, likely CAE with no cognitive concerns

# Management

- Confirmed diagnosis
- Anti-epileptic therapy
  - Is it needed – do not give a trial of AED
  - Choice of AED
    - Sodium Valproate – wide spectrum, MHRA safety advise
    - Lamotrigine – focal onset seizures
    - Carbamazepine – narrow spectrum
    - Discussion of risks and benefits
  - Principles of starting – go low and slow
- Safety advise, SUDEP discussion
- Comprehensive health care plan
  - 95% of the children had a significant difficulty in at least one area of learning or behaviour
- Regular follow up
- Tertiary referral

## Annual Risk Acknowledgement Form VALPROATE HAS RISKS IN PREGNANCY

Step 3 – Your patient needs to complete this section to confirm they understand the risks of valproate in pregnancy

If you use valproate while you are pregnant, your future child has significant risk of serious harm.

Completing this form confirms that you (or your responsible person) understand the risks of using valproate during pregnancy, and what method of contraception you will use to prevent becoming pregnant during treatment.

To be completed and signed by the patient or their responsible person	Initials
<b>I have discussed the following with my specialist and I understand:</b>	
✓ Why I need valproate rather than another medicine	
✓ That I should visit a specialist regularly (at least once a year) to review whether valproate remains the best option for me	
✓ The risks in children whose mothers took valproate during pregnancy are: <ul style="list-style-type: none"> <li>• 1 out of 10 children will have physical birth defects</li> <li>• 3 to 4 out of 10 children will have early developmental problems that can lead to significant learning disabilities</li> </ul>	
✓ That I have had a pregnancy test (if advised by my doctor/specialist)	
✓ Why I must use effective contraception, without stopping or interruption, at all times while taking valproate	
✓ The options for effective long-term contraception (or a consultation has been planned with a professional who can give me advice)	
✓ The need to consult my specialist or GP as soon as I start thinking about becoming pregnant. This is to make sure I have time to switch to another treatment before I come off contraception	
✓ That I should request an urgent GP appointment if I think I am pregnant	
✓ I have been given a copy of the Valproate Patient Guide and know where to find more information	
<b>In case of pregnancy, I confirm that:</b>	
✓ Options for switching treatment have been considered	

**epilepsy action**

### Individual healthcare plan (IHP) for epilepsy

Date: \_\_\_\_\_ Review date: \_\_\_\_\_

**Child's details**

Name	
Group/class/form	
Date of birth	
Address	

**Family contact information**

1. Contact name	
Relationship to child	
Phone number (work)	
(mobile)	
(home)	
2. Contact name	
Relationship to child	
Phone number (work)	
(mobile)	
(home)	

**Clinic/hospital contact**

Name	
Role	
Phone number	

**GP**

Name	
Phone number	

**Who is responsible for providing support at school?**

--	--

**epilepsy action**

Details of epilepsy / epilepsy syndrome

--

Seizure(s) – type, what happens before, during and after, frequency, and duration

1. _____
2. _____
3. _____

Action to be taken during and after a seizure

1. _____
2. _____
3. _____

Emergency procedure if seizure lasts more than \_\_\_\_\_ minutes

--

Is an emergency medicines care plan in place: yes / no

Emergency medicine(s) (only to be administered by named and trained members of staff):

Name and dose of medicine	
Named individual(s) who may give medicine	

Epilepsy medicine(s)

Name:	Dose:	Time given
Name:	Dose:	Time given
Name:	Dose:	Time given

# Summary

- Fits and funny turns are common presentation in children
- Epilepsy is a common neurological disorder characterised by recurring seizures and can be easily misdiagnosed
- History taking and assessment is key to differentiate epilepsy from non-epileptic movements
- Those with suspected epileptic seizure should be timely referred and appropriately managed



# References

- [Guidelines // International League Against Epilepsy \(ilae.org\)](http://www.ilae.org)
- [EpilepsyDiagnosis.org](http://www.epilepsydiagnosis.org)
- Epilepsy action [www.epilepsy.org.uk](http://www.epilepsy.org.uk)
- Young epilepsy [www.youngepilepsy.org.uk](http://www.youngepilepsy.org.uk)
- Epilepsies: diagnosis and management [www.nice.org.uk/guidance/cg137](http://www.nice.org.uk/guidance/cg137)
- [London Epilepsy Standards for Children and Young People - Healthy London Partnership](#)
- Fisher RS, Acevedo C, Arzimanoglou A, et al. ILAE official report: a practical clinical definition of epilepsy. *Epilepsia*. 2014;55(4):475-482. doi:10.1111/epi.12550
- Scheffer IE, Berkovic S, Capovilla G, et al. ILAE classification of the epilepsies: Position paper of the ILAE Commission for Classification and Terminology. *Epilepsia*. 2017;58(4):512-521. doi:10.1111/epi.13709

# Resources

> Overview

Log In For Videos

Choose a language

Overview

Log In For Videos  
Give Feedback

Seizure Classification

Generalized onset seizure  
Focal Onset Seizure  
Unknown Onset Seizure  
Epilepsy Classification  
Generalized Epilepsy  
Focal Epilepsy  
Generalized and Focal Epilepsy  
Unknown Epilepsy

Epilepsy Syndromes  
Neonatal/Infantile  
Childhood  
Adolescent/Adult  
Any Age

Epilepsy Etiologies  
Genetic Etiology  
Structural Etiology  
Metabolic Etiology  
Immune Etiology  
Infectious Etiology  
Unknown Etiology  
Epilepsy imitators

## EpilepsyDiagnosis.org

The ILAE welcomes you to EpilepsyDiagnosis.org, a cutting edge online diagnostic manual of the epilepsies.

### Goal

The goal of **epilepsydiagnosis.org** is to make available, in an easy to understand form, latest concepts relating to seizures and the epilepsies. The principle goal is to assist clinicians who look after people with epilepsy anywhere in the world to diagnose seizure types, epilepsy type, diagnose epilepsy syndromes and define the etiology of the epilepsy. The site is principally designed for clinicians in primary and secondary care settings caring for people with epilepsy and we hope will also serve as a useful teaching aid.

### Structure

The structure of this site reflects the importance of seizure type, epilepsy type, syndrome, and etiology in clinical practice. On this website, you will find current classification concepts for seizures, with their clinical features, video examples, EEG correlate, differential diagnosis and related epilepsy type, epilepsy syndrome and etiology. Epilepsy syndromes are detailed by their clinical features, seizure types, EEG, imaging and genetic correlates and differential diagnoses. The site includes sections on etiologies of epilepsies and epilepsy imitators with cross-referencing between these sections and seizure and syndrome sections.

### Videos

A short and instantaneous ref with an internet connection. Ir videos to be freely available in

### Further develop

You will notice that there are 1 that require expansion. The IL Please have a look EpilepsyC about the resources on this si us in our further development packages linked to the site an

### Acknowledgeme

Thanks to our donors



## TIPS FOR SEIZURE OBSERVATION AND RECORDING

When watching a seizure, try to note what happens before, during, and after the event. Write down what happened as soon as you can. Include as much information as possible about the following areas:

**BEHAVIOR BEFORE THE SEIZURE** - what was the person doing at the time of event, change in mood or behavior hours or days before, 'warning' or 'aura' shortly before event.

**WHEN EVENT OCCURS** - date, time

#### POSSIBLE TRIGGERS OR FACTORS THAT MAY MAKE EVENT MORE LIKELY TO OCCUR

- Time of day or month
- Menstruation, pregnancy, changes in contraception, or other hormonal treatment
- Missed, late, or changes in medicines
- Irregular sleep patterns, not enough sleep, other sleep problems
- Irregular eating patterns, specific foods
- During or after exercise or hyperventilation (fast breathing)
- Alcohol or other drug use
- Emotional stress, worry, excitement
- Sounds, flashing lights, bright sunlight
- Other illnesses or infections

#### WHAT HAPPENS DURING THE EVENT

- Change in awareness, alertness, confusion
- Ability to talk and understand
- Changes in thinking, remembering, emotions, perceptions
- Sensations - changes in seeing, twitching, eye blinking or rolling, drooling
- Changes in muscle tone - body becomes stiff or limp
- Movements - jerking or twitching movements, unable to move, body turning, falls
- Automatic or repeated movements - lipsmaking, chewing, swallowing, picking at clothes, rubbing hands, tapping feet, dressing or undressing.
- Walking, wandering, running
- Changes in color of skin, sweating, breathing
- Loss of urine or bowel control

**PART OF BODY INVOLVED** - where symptom started, spread to other areas, side of body (right, left, or both)

#### WHAT HAPPENS AFTER EVENT

- Response to voice or touch
- Awareness of name, place, time
- Memory for events
- Ability to talk or communicate
- Weakness or numbness
- Changes in mood or how person acts
- Tired, need to sleep

**HOW LONG IT LASTED** - length of aura, seizure, after-effects or postictal phase, how long before person returns to normal activity.

Adapted with permission from the Comprehensive Epilepsy Center, Beth Israel Deaconess Medical Center, Boston, Massachusetts, 2006.



Following a first seizure without a fever in children and young people

Information for parents and carers

First seizure  
First safety-net

### Introduction

Seeing a child or young person having a seizure can be frightening. Most seizures do not cause serious harm.

This leaflet has been given to you because you are a parent or carer of a child or young person a first seizure that was **NOT** considered to be a 'febrile convulsion'.

### seizure?

sudden disturbance in the brain that affects how a person appears or acts. Seizures, child recovers after them, can vary from one child to another.

people call seizures fits, convulsions, attacks or episodes. They vary from child to child. Some children have seizures that are not noticeable events for some to 'going blank and staring' for others.

seizure is an epileptic seizure. There are many different types of epileptic seizures, but they are all seizures. Some children can have events that look very similar to an epileptic seizure, but they are not seizures. These include faints, tics, daydreams, sleep disorders and breath-holding attacks.

### Why?

Having a seizure does not mean they have epilepsy. Some children have seizures that are not epilepsy. If a child has had only one seizure, it does not always mean they have epilepsy. Some children have another one.

If a child has more seizures, then further medical review with a paediatrician will be needed. An appropriate plan of care can then be agreed and started.

### What is a convulsive seizure

A convulsive seizure is where the child is stiff or shaking. The information below can help you to know what to do if your child is having a seizure. It can help you to give first aid to keep them safe.

If your child has a seizure, do not try to restrain them from injury (remove harmful objects from nearby) or gently hold your child's head to protect them from head injury. Note the date and time the seizure started - if stiffness and / or jerking continues for 5 minutes or more you should call 999 for an ambulance.

https://www.nice.org.uk/guidance/cg137/resources

NICE National Institute for Health and Care Excellence

Search NICE...

Guidance

NICE Pathways

Standards and Indicators

Life sciences

BNF

BNFC

CKS

About

More

Read about our approach to COVID-19

Home > NICE Guidance > Conditions and diseases > Neurological conditions > Epilepsy

## Epilepsies: diagnosis and management

Clinical guideline [CG137] Published: 11 January 2012 Last updated: 12 May 2021

Guidance

Tools and resources

Information for the public

Evidence

History

### Tools and resources

Tools to help you put the guidance into practice.

#### Implementation support

Measuring the use of NICE guidance: NICE Impact children and young people's healthcare

Measuring the use of NICE guidance

Valproate in children, young people and adults: summary of NICE guidance and safety advice

28 March 2019

#### Audit and service improvement

Baseline assessment tool

Excel 82 KB

17 May 2021

#### Education

BMJ online learning: Epilepsy: putting NICE guidelines into practice

Adult clinical case scenarios

PDF 367 KB

27 November 2019

#### Summary versions

Appendix C: Outline care algorithms

PDF 450 KB

12 April 2017

Appendix D: Differential diagnosis of epilepsy in children, young people and adults

PDF 69 KB

12 April 2017

#### Related news

NICE publishes a summary of its guidance on epilepsy

27 November 2019