Lennox-Gastaut syndrome (LGS) key facts



LGS is a rare and severe form of epilepsy that usually starts in childhood¹

Nobody is born with LGS. However, it may develop over time from childhood seizures that remain uncontrolled by treatments²

LGS is more common in males than females^{3,4}





LGS affects an estimated

2 in 10,000 people

in the European Union⁵

In ~65%-75% of patients living with LGS, the cause is known and can include:^{3,6,7}



Underlying structural brain abnormality (e.g., head trauma, injury from childbirth complications, tuberous sclerosis, infection such as encephalitis and meningitis, brain malformations, or tumours)

Diagnosis is based on:⁸⁻¹⁰



Clinical history (e.g., seizure types and intellectual impairment)

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Clinical evaluation (e.g., EEG and neuroimaging studies such as MRI, CT or SPECT)



Lab testing



Key characteristics:¹¹



Seizure onset in childhood



More than one type of seizure



Abnormal brain waves on the electroencephalogram (EEG)



Developmental delay*12

The incidence of LGS is estimated at 0.1 to 0.28 per 100,000 population^{7,13}





Children and adults with LGS share similar features, primarily suffering from multiple types of seizures that do not respond well to treatments (drug-resistant seizures)^{10,11}

The most common seizure types are:^{2,11,16-18}

Tonic:

Stiffness in the arms and legs

Atonic seizures:

Sudden relaxing of muscles, usually causing the person to fall

Generalised tonic-clonic:

Begins with stiffness in the arms and legs, followed by jerky movements in the arms, legs, and head with a loss of consciousness

Atypical absence

Brief altered consciousness with prolonged staring and subtle movements

Non-convulsive status epilepticus:

Prolonged seizure activity without convulsions

Myoclonic:

Involuntary, brief, jerk-like movements that cause a sudden muscle contraction

Focal impaired awareness

Affects a limited area of the brain and the affected person remains conscious. These may remain focal or evolve to bilateral tonic-clonic seizures

Epileptic spasm

Brief events of arm, leg, head flexion or extension

Burden of LGS on patients' lives:

Significant impact on quality of life (QoL) for both patients and their families¹⁹

Patients often suffer from lifelong motor, cognitive, and behavioural abnormalities^{9,19}

Poor long-term outcomes for patients⁹



Complete seizure freedom is unusual⁹

Increased risk of sudden unexpected death in epilepsy (SUDEP) due to uncontrolled seizures²⁰⁻²²

Impact on sleep¹¹

Cognitive delay and behavioural issues¹¹

Key challenges for caregivers:^{23,24}



*Developmental delay is not required to make the LGS diagnosis and 30% of children are typically developing at diagnosis

References

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