What is LGS?

Lennox-Gastaut Syndrome (LGS) is a severe epilepsy syndrome that develops in young children and often leads to lifelong disability. Nobody is born with LGS. It develops over time.

In LGS:
- Seizures usually begin in the pre-school years.
- More than one seizure type is always present.
- Tonic seizures are present in nearly all with LGS at some point.
- Seizures are nearly always treatment-resistant.
- Many LGS Associated Disorders exist including issues with sleep, behavior, movement, feeding, toiletting, communication, and others.
- Slow spike and wave (SSW) and Generalized Paroxysmal Fast Activity (GPFA) are seen on the EEG. These are hallmarks of LGS.
- SSW and GPFA usually emerge between ages 3-5 years but can begin later in childhood.
- SSW and GPFA occur between seizures and can worsen seizures, development, and behavior problems.

What causes seizures in LGS?

- In LGS, the brain is affected at a critical time in its development. Seizures and developmental problems result.
- There are many causes of seizures that can evolve into LGS. In most but not all cases, a cause can be found. Finding it can take extensive testing. In some cases, more than one cause is found.
- Knowing the cause of seizures can help identify an effective treatment in some cases.
- Most with LGS may have abnormal brain imaging seen on the MRI test, but some have normal brain imaging prior to developing LGS.
- LGS can also develop from other epilepsy syndromes such as West, Ohtahara, EIEE, Hypothalamic Hamartoma, Infantile Spasms, etc.

Who has LGS?

- 1-2% of people with epilepsy
- 3-4% of children with epilepsy
- 48,000 children and adults in the U.S.
- 1,000,000 children and adults have LGS worldwide

How does LGS change over time?

- There is no cure for LGS.
- Seizures in LGS may go into remission, and may also recur.
- 30-50% of children with infantile spasms will develop LGS.
- 80-90% of children with LGS will continue to have seizures into adulthood.
- Over 95% with LGS are intellectually disabled.
- Up to 70% with LGS will no longer show slow spike-and-wave (<3Hz) on EEG in adulthood.
- Over 50% suffer behavioral issues including hyperactivity, sleep disturbances, rage attacks, aggression, and autistic features.
- Those with LGS are 14 times more likely to die prematurely. Premature death in LGS is often due to SUDEP*, aspiration pneumonia, seizures, injury, or the underlying brain disorder.

The LGS Foundation is committed to finding a cure for this devastating disorder!

LGS Foundation Caregiver Concerns Survey 2018.
*SUDEP – Sudden Unexpected Death in Epilepsy.

www.LGSFoundation.org

Our mission is to improve the lives of individuals impacted by LGS through advancing research, awareness, education, and family support.