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Lennox Gastaut Syndrome – Pipeline Insight, 2020

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Abstracts

This report can be delivered to the clients within 72 Hours

DelveInsight's, "Lennox Gastaut Syndrome – Pipeline Insight, 2020," report provides comprehensive insights about 15+ companies and 15+ pipeline drugs in Lennox Gastaut Syndrome pipeline landscape. It covers the pipeline drug profiles, including clinical and nonclinical stage products. It also covers the therapeutics assessment by product type, stage, route of administration, and molecule type. It further highlights the inactive pipeline products in this space.

Geography Covered

Global coverage

Lennox Gastaut Syndrome Understanding

Lennox Gastaut Syndrome: Overview

Lennox-Gastaut syndrome (LGS) is a severe form of epilepsy that typically becomes apparent during infancy or early childhood. Affected children experience several different types of seizures most commonly atonic, tonic and atypical absence seizures. Children with Lennox-Gastaut syndrome may also develop cognitive dysfunction, delays in reaching developmental milestones and behavioral problems. Lennox-Gastaut syndrome can be caused by a variety of underlying conditions, but in some cases no cause can be identified. Lennox-Gastaut syndrome can be difficult to treat because it is resistant (refractory) to many kinds of antiseizure medications. Research is ongoing to identify and assess new therapies for Lennox-Gastaut syndrome.

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Symptoms

The symptoms of Lennox-Gastaut syndrome usually begin during infancy or childhood, most often between 3 to 5 years of age. Multiple types of seizures, which are basically electrical disturbances in the brain, affect children with Lennox-Gastaut syndrome. Most affected individuals experience multiple types of seizures, multiple times throughout the day. As affected individuals grow older, the types and frequency of seizure activity may change.The most common types of seizures associated with Lennox-Gastaut syndrome are tonic and atonic seizures. Tonic seizures cause increased muscle tone and muscle stiffness. They are characterized by sustained muscle contractions that can cause mild abnormalities such as a slight bend of the body and brief interruption of breathing or more significant problems such as muscle spasms of the face and flexion or extension of the arms and legs.

Diagnosis

A diagnosis of Lennox-Gastaut syndrome is usually made based upon a thorough clinical evaluation, a detailed patient history and a complete physical and neurological evaluation including advanced imaging techniques, such as electroencephalography (EEG) and magnetic resonance imaging (MRI). During an EEG, the brain’s electrical impulses are recorded.

Treatment

No specific therapy for Lennox-Gastaut syndrome is effective in all cases and the disorder has proven particularly resistant to most therapeutic options. The three main forms of treatment of Lennox-Gastaut syndrome are anti-epileptic drugs (AEDs), dietary therapy (typically the ketogenic diet) or device/surgery (VNS therapy or corpus callosotomy). Rarely, resective surgery is an option.

Lennox Gastaut Syndrome Emerging Drugs Chapters

This segment of the Lennox Gastaut Syndrome report encloses its detailed analysis of various drugs in different stages of clinical development, including phase II, I, preclinical and Discovery. It also helps to understand clinical trial details, expressive pharmacological action, agreements and collaborations, and the latest news and press releases.

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Lennox Gastaut Syndrome Emerging Drugs

Soticlestat: Ovid Therapeutics

Soticlestat is a potent, highly selective, first-in-class inhibitor of the enzyme cholesterol 24-hydroxylase (CH24H), with the potential to reduce seizure susceptibility and improve seizure control. CH24H is predominantly expressed in the brain, where it converts cholesterol into 24S-hydroxycholesterol (24HC) to adjust the homeostatic balance of brain cholesterol. 24HC is a positive allosteric modulator of the NMDA receptor and modulates glutamatergic signaling associated with epilepsy. Glutamate is one of the main neurotransmitters in the brain and has been shown to play a role in the initiation and spread of seizure activity. Recent literature indicates that CH24H is involved in over-activation of the glutamatergic pathway through modulation of the NMDA channel and that increased expression of CH24H can disrupt the reuptake of glutamate by astrocytes, resulting in epileptogenesis and neurotoxicity. Inhibition of CH24H by soticlestat reduces the neuronal levels of 24HC and may improve excitatory/inhibitory balance of NMDA channel activity.

Further product details are provided in the report

Lennox Gastaut Syndrome: Therapeutic Assessment

This segment of the report provides insights about the different Lennox Gastaut Syndrome drugs segregated based on following parameters that define the scope of the report, such as:

Major Players in Lennox Gastaut Syndrome

There are approx. 15+ key companies which are developing the therapies for Lennox Gastaut Syndrome. The companies which have their Lennox Gastaut Syndrome drug candidates in the most advanced stage, i.e. phase III include, Zogenix.

Phases

DelveInsight’s report covers around 15+ products under different phases of clinical development like

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Late stage products (Phase III)

Mid-stage products (Phase II)

Early-stage product (Phase I) along with the details of

Pre-clinical and Discovery stage candidates

Discontinued & Inactive candidates

Route of Administration

Lennox Gastaut Syndrome pipeline report provides the therapeutic assessment of the pipeline drugs by the Route of Administration. Products have been categorized under various ROAs such as

Oral

Parenteral

intravitreal

Subretinal

Topical.

Molecule Type

Products have been categorized under various Molecule types such as

Monoclonal Antibody

Peptides

Polymer

Small molecule

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Gene therapy

Product Type

Drugs have been categorized under various product types like Mono, Combination and Mono/Combination.

Lennox Gastaut Syndrome: Pipeline Development Activities

The report provides insights into different therapeutic candidates in phase II, I, preclinical and discovery stage. It also analyses Lennox Gastaut Syndrome therapeutic drugs key players involved in developing key drugs.

Pipeline Development Activities

The report covers the detailed information of collaborations, acquisition and merger, licensing along with a thorough therapeutic assessment of emerging Lennox Gastaut Syndrome drugs.

Report Highlights

The companies and academics are working to assess challenges and seek opportunities that could influence Lennox Gastaut Syndrome R&D. The therapies under development are focused on novel approaches to treat/improve Lennox Gastaut Syndrome.

In August 2020, Takeda Pharmaceutical Company and Ovid Therapeutics announced positive topline results from the randomized Phase 2 ELEKTRA study of soticlestat in children with Dravet syndrome (DS) or Lennox-Gastaut syndrome (LGS).

Lennox Gastaut Syndrome Report Insights

Lennox Gastaut Syndrome Pipeline Analysis

Therapeutic Assessment

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Key Questions

Current Treatment Scenario and Emerging Therapies:

How many companies are developing Lennox Gastaut Syndrome drugs?

How many Lennox Gastaut Syndrome drugs are developed by each company?

How many emerging drugs are in mid-stage, and late-stage of development for the treatment of Lennox Gastaut Syndrome?

What are the key collaborations (Industry–Industry, Industry–Academia), Mergers and acquisitions, licensing activities related to the Lennox Gastaut Syndrome therapeutics?

What are the recent trends, drug types and novel technologies developed to overcome the limitation of existing therapies?

What are the clinical studies going on for Lennox Gastaut Syndrome and their status?

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What are the key designations that have been granted to the emerging drugs?

Key Players

Zogenix, Inc.

Takeda

Ovid Therapeutics Inc.

SK Life Science, Inc.

Lundbeck LLC

INSYS Therapeutics Inc

GW Research Ltd

Eisai Limited|Eisai Inc.

Key Products

ZX008 (Fenfluramine Hydrochloride)

TAK-935

Carisbamate

Clobazam

Cannabidiol Oral Solution

GWP42003-P

Rufinamide (E2080)

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Contents

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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