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Abstract

The Varying Systems of Epilepsy - MRNA, Neurological Coding, Chemical Transmitters, Seizure Types and the Post Ictal state

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ABSTRACT

This study will focus on MRNA variations, Neurological signaling plus types of seizures related to Epilepsy. An analysis of the "Post Ictal state" and related mechanisms, how inhibitory vs excitatory neural signaling alters, possible chemical transporter corruptions caused by MRNA signals, and review of how the brain responds to neurological trauma will also be a focus.

Research Content: The brain operates on a multi-faceted system combining genetic, chemical, physical and coding based structures - and defaults in any of these can cause different effects. A genetic issue is how MRNA signaling controls mechanisms such as neuron pore regulation thus intake of ions such as sodium, magnesium & calcium. Neurological coding and how neurons divide into "inhibitory or excitatory" categories - then the multiple "sub-categories" that can "hear & speak" different languages will be a key topic as it may play a role in how neurological pathways are defined via signal coding and higher translation rates. Various chemical factors are being found to have serious effects when defective. Chemical transporters that assist in the movement of neural signals can exclude certain chemicals and others can become misbalanced - these defects may be linked to corrupted MRNA signaling - meaning they could be exponential. Finally, an analysis of the "Post Ictal state" and various mechanisms related - how medications must be balanced between seizure control and side effects - new technology, access to patient data and global collaboration in future research will be reviewed.

Analysis & Findings: A factor that stood out was how the brain's systems are so heavily interlinked. It is a complex mechanism of electrical systems tied into neurological programs, then genetic and chemical systems. This can create a "pyramid" style effect where minor defects in these mechanisms can have major effects further up / down in the structure.

Keywords: MRNA, Neurological signaling, Seizures, Epilepsy, Post Ictal, Inhibitory vs excitatory, Chemical transporter

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