



# Epilepsy and Seizure Services

*CNNH Neurologists use the latest in neurodiagnostic technology to look beyond the symptoms for the underlying biological causes of epilepsy and seizures. Gathering all the available physical evidence allows CNNH Neurologists to make accurate, evidenced-based diagnoses and recommend pragmatic treatment plans.*



## → Comprehensive Neurological Evaluation

Before any testing is recommended, a CNNH Neurologist will first obtain a full medical history, review any medical and school records, and administer a comprehensive physical and neurological examination.

## → High Density Electroencephalography (HD - EEG)

CNNH is the only clinical provider in the region of HD-EEG "brain wave" testing technology. HD-EEG testing is also available, by referral, without having to be a CNNH patient.

### → More Electrodes = Greater Accuracy

High Density EEG utilizes a sensor net of 128+ sponge electrodes that surround the head for maximum data collection, superior accuracy, and spatialization of brain waves, where as traditional EEG technology typically has 16-24 electrodes for limited data collection.

### → Quick and Painless Application

Application of traditional EEG electrodes can be a tedious process that scrapes the scalp and traumatizes sensitive patients. The High Density EEG sensor net utilizes sponge electrodes that rest comfortably on the head and are quick and painless to apply without the need for sedation, allowing for more testing time and more data collection.

## → Treatment Options

### → Treating the Cause

In many cases, if a CNNH Neurologist can identify the cause of seizures, addressing that cause can result in an elimination or significant reduction of seizures.

### → Lifestyle Changes

A CNNH Neurologist may recommend improvements to sleep habits, diet, nutrition, and stress levels.

### → Medication Therapies

Anti-Epileptic Drugs (AEDs) work by causing brain cells to be less excitable. A CNNH Neurologist has the experience and the expertise to weigh the benefits versus the risks of various AEDs and their appropriate use when necessary.

### → Vagal Nerve Stimulator (VNS)

The VNS is an implantable device similar to a pacemaker that provides ongoing electrical stimulation to the vagus nerve, inhibiting brain cell excitability.

## Signs and Symptoms of Seizures

- Staring Spells / Unusual Behavior
- Unexplained Nocturnal Events
- Hallucinations
- Strange Sensory Phenomena
- Impaired Memory / Consciousness
- Academic Decline
- Headaches, Dizziness, Nausea
- Unexplained Twitching, Tremors

## What is CNNH?

*CNNH's innovative and integrative Specialty Care Medical Home® model of care provides diagnostic and treatment services for children, adolescents, and adults with neurological, neuropsychological, neuropsychiatric, behavioral, developmental, and learning concerns.*

*Our Neurologists, Neuropsychologists, Behavior Analysts, and Creative Arts Therapists work together, all under one roof. Weekly interdisciplinary meetings allow our clinicians to share expertise and experience, for accurate diagnoses and personalized treatment plans.*

[www.CNNH.org](http://www.CNNH.org) • 855.852.8150



Voorhees, NJ  
Wall Township, NJ  
King of Prussia, PA



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NeuroHealth