

GET TO KNOW

CDKL5 DEFICIENCY DISORDER

CDD IS A RARE GENETIC CONDITION THAT AFFECTS BRAIN DEVELOPMENT. IT OFTEN BEGINS WITH SEIZURES EARLY IN LIFE AND CAN IMPACT MOVEMENT, COMMUNICATION, LEARNING, AND OVERALL DEVELOPMENT.

SYMPTOMS

Symptoms and severity vary widely between individuals but typically begin in early infancy.



NEUROLOGIC

Early-onset Seizures
Developmental Delay
Cognitive Differences



SEIZURE TYPES

Infantile Spasms
Tonic Seizures
Myoclonic Seizures



OTHER SYSTEMS

Low Muscle Tone
Vision Impairment
Feeding and GI Challenges

CAUSE

CDD is caused by a change in the **CDKL5 gene** located on the X chromosome, which plays an important role in early brain development.



DIAGNOSIS

MEDICAL
EVALUATION

ELECTROEN-
CEPHALOGRAM
(EEG)

MAGNETIC
RESONANCE
IMAGING (MRI)

GENETIC
TESTING

Diagnosis typically includes a medical evaluation and genetic testing to confirm a change in the *CDKL5* gene.

INHERITANCE

Most cases occur spontaneously, meaning they are **not** inherited from a parent. Rarely, CDD may be inherited from a parent who carries the gene change.

TREATMENT

There is currently no cure for CDD. Treatment focuses on managing symptoms and providing supportive care to help improve quality of life.

TREATMENT
OPTIONS

ANTI-SEIZURE
MEDICATIONS

FEEDING AND GI
MANAGEMENT

CLINICAL
TRIALS

PHYSICAL
THERAPY

OCCUPATIONAL
THERAPY

SPEECH
THERAPY

RESOURCES

CDKL5
ALLIANCE

HOPE FOR CDKL5

EPILEPSY FOUNDATION

INTERNATIONAL FOUNDATION
FOR CDKL5 RESEARCH

NATIONAL ORGANIZATION FOR
RARE DISORDERS (NORD)



PREVALENCE

CDD is considered a rare disorder. It is estimated to affect about 1 in 40,000-60,000 children worldwide. Exact numbers may vary as research continues.