

HADD Syndrome

Hypotonia Ataxia, Delayed Development Syndrome AKA: EBF3 neurodevelopmental disorder (EBF3-NDD)

Main Features

- Intellectual disability
- Microcephaly
- Speech delay
 - mainly expressive speech delay
 - dysarthria
- Gait or truncal ataxia
- Hypotonia
- Behavioral problems
 - stereotypic movements (e.g., rotating movements, chewing on clothes, head retropulsion)
 - perseverative social behavior
 - short attention span
- Facial dysmorphism

Eye Findings

- Strabismus: Esotropia



- Deep-set eyes
- [Synophrys](#), Straight eyebrows
- Astigmatism
- Epicanthal folds
- Hypertelorism
- Downslanting palpebral fissures

Other Findings

- Genitourinary
 - micropenis
 - cryptorchidism
 - vesicoureteral reflux
 - renal anomalies
- Gastrointestinal abnormalities
- Musculoskeletal abnormalities
- MRI Brain findings
 - Cerebellar vermis hypoplasia
 - Cerebellar atrophy or hypoplasia
 - Small inferior posterior cerebellar lobes and hypoplasia of the posterior vermis with mild prominence of the ventricles and sulci
 - Abnormal configuration of cerebellar folia arranged in radial shape

Etiology

- [EBF3 gene mutation](#)

Reference

- [Gene Reviews](#)
- [Med Gen Summary](#)
- [OMIM](#)

[syndrome](#)

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