



2025

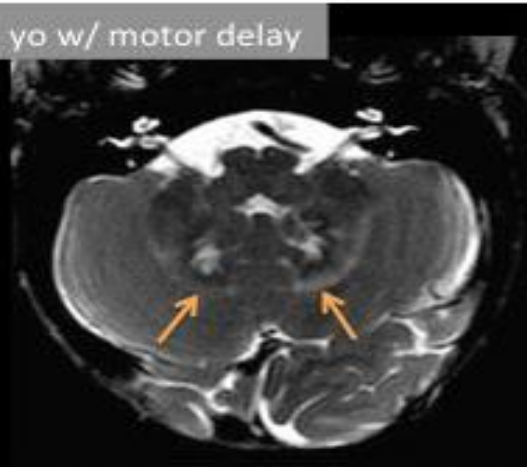
KARNATAKA RADIOLOGY EDUCATION PROGRAM

CASE

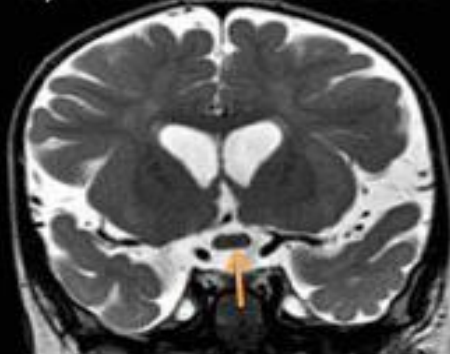
Clinical history: 1 yo w/ motor delay



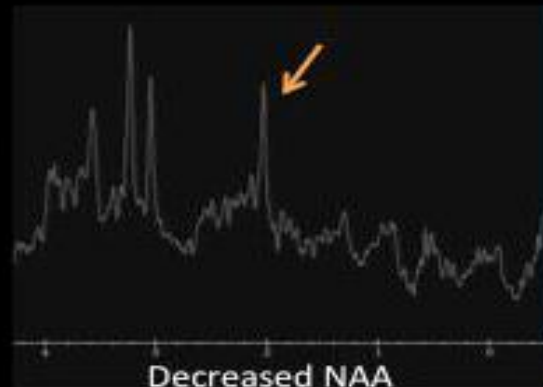
Hypointense thalami
Symmetric abnormal WM



Cavitory cerebellar nuclei



Enlarged optic chiasm

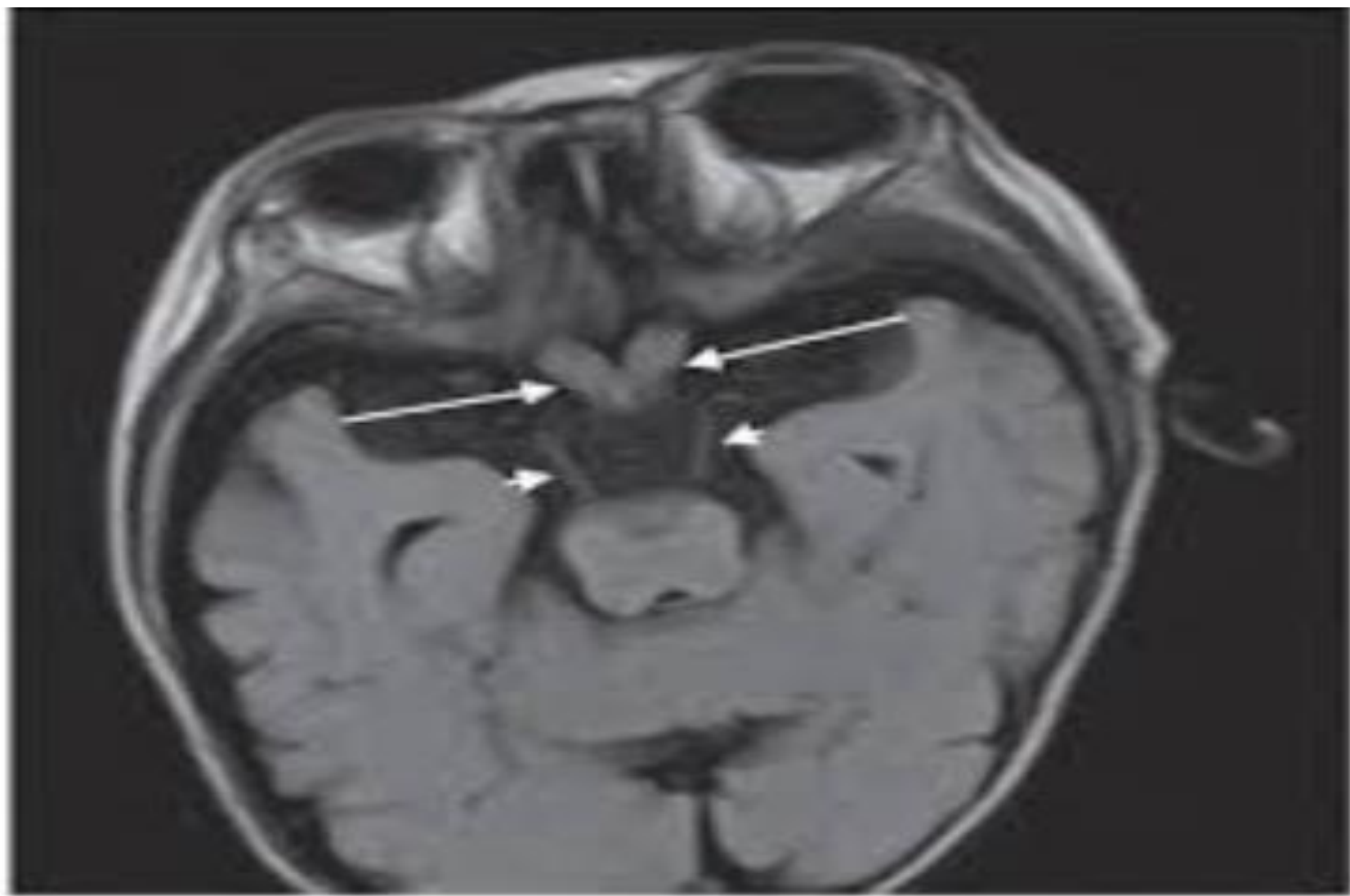


Decreased NAA

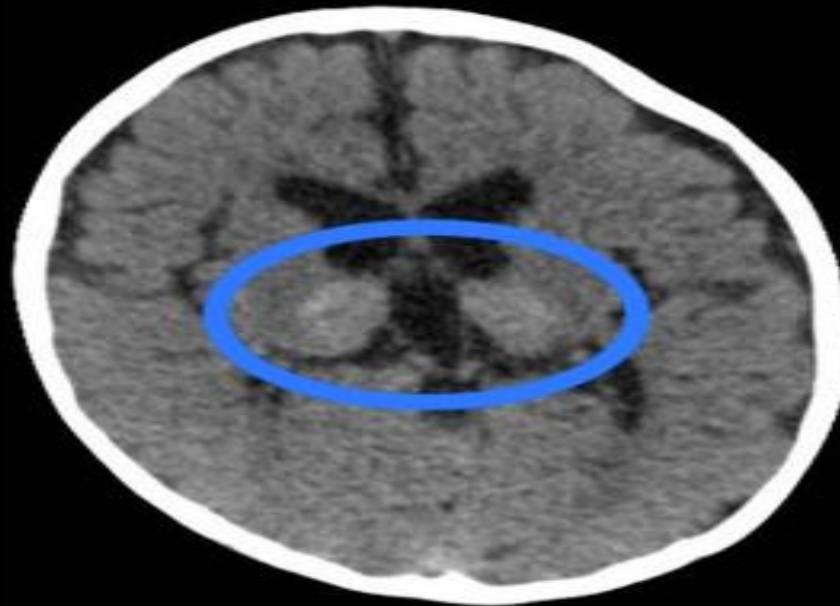
Krabbe Disease

- Autosomal recessive **leukodystrophy** w/ deficiency of **galactocerebroside** that leads to accumulation of psychosine, which is **neurotoxic**
- Symptoms: dev delay, seizures, visual failure, cerebellar ataxia
- Imaging shows
 - Symmetric **abnormal WM**, **cerebellar nuclei**, & **PLICs**
 - **Mineralization of thalami**
 - **Enlarged optic nerves** (from globoid cell deposition)
 - Dec NAA, inc Cho
- Tx: Stem cell transplant, clinical trials

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Krabbe Disease



- Krabbe disease is an autosomal recessive lysosomal storage disorder.
- There is an infantile form (85-90%), which occurs <2y age and is rapidly progressive. The adult form (10-15%) is more slowly progressive.
- The CT demonstrates bilateral hyperdense thalami and generalised cerebral atrophy.