INTRODUCTION

- □ HHV 6 infection causes mild febrile illness in immunocompetent children, classically known as roseola infantum. HHV-6 is also commonly associated with febrile seizures in children.
- □ The neurological manifestations of HHV 6 infection can be varied, ranging from simple febrile seizures to severe forms of encephalitis. Nevertheless, HHV-6 encephalitis is a rare occurrence in immunocompetent children.

OBJECTIVES

To describe the clinico-radiological profile of HHV -6 encephalitis in children at our tertiary care centre.

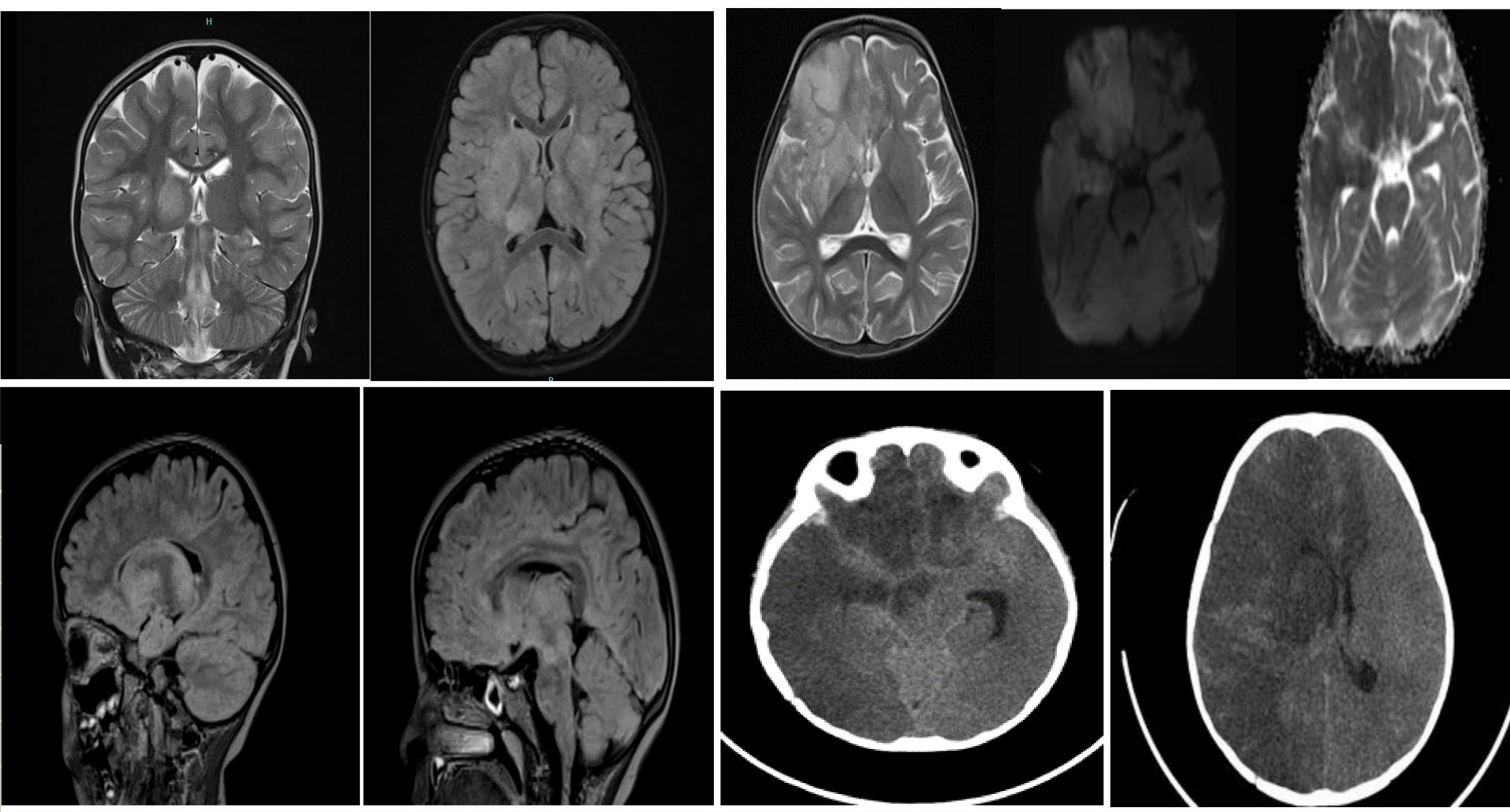
Case 1- A 3 year old child , presented with complaints Case 3- A 7 year old girl presented with complaints of Case 2- A 1year old developmentally normal child with fever of fever , headache , vomiting and increased sleepiness. altered behaviour. On examination - GCS was12/15.No since 14days, vomiting x 3days and seizures since 1 days On examination child had altered sensorium with GCS focal neurological deficits. associated with increased sleepiness and lethargy with h/o focal scoring of 11/15, brisk reflexes and extensor plantar. In CSF study showed - lymphocytic pleocytosis with normal seizure on the left side. O/E Poor GCS – 9/15, weakness and v/o depressed sensorium and poor GCS child was glucose and hypertonia left upper and lower limbs, exaggerated reflexes. levels. MRI protein hyperintensities in the left hippocampus and medial intubated. Intubated in v/o poor GCS.

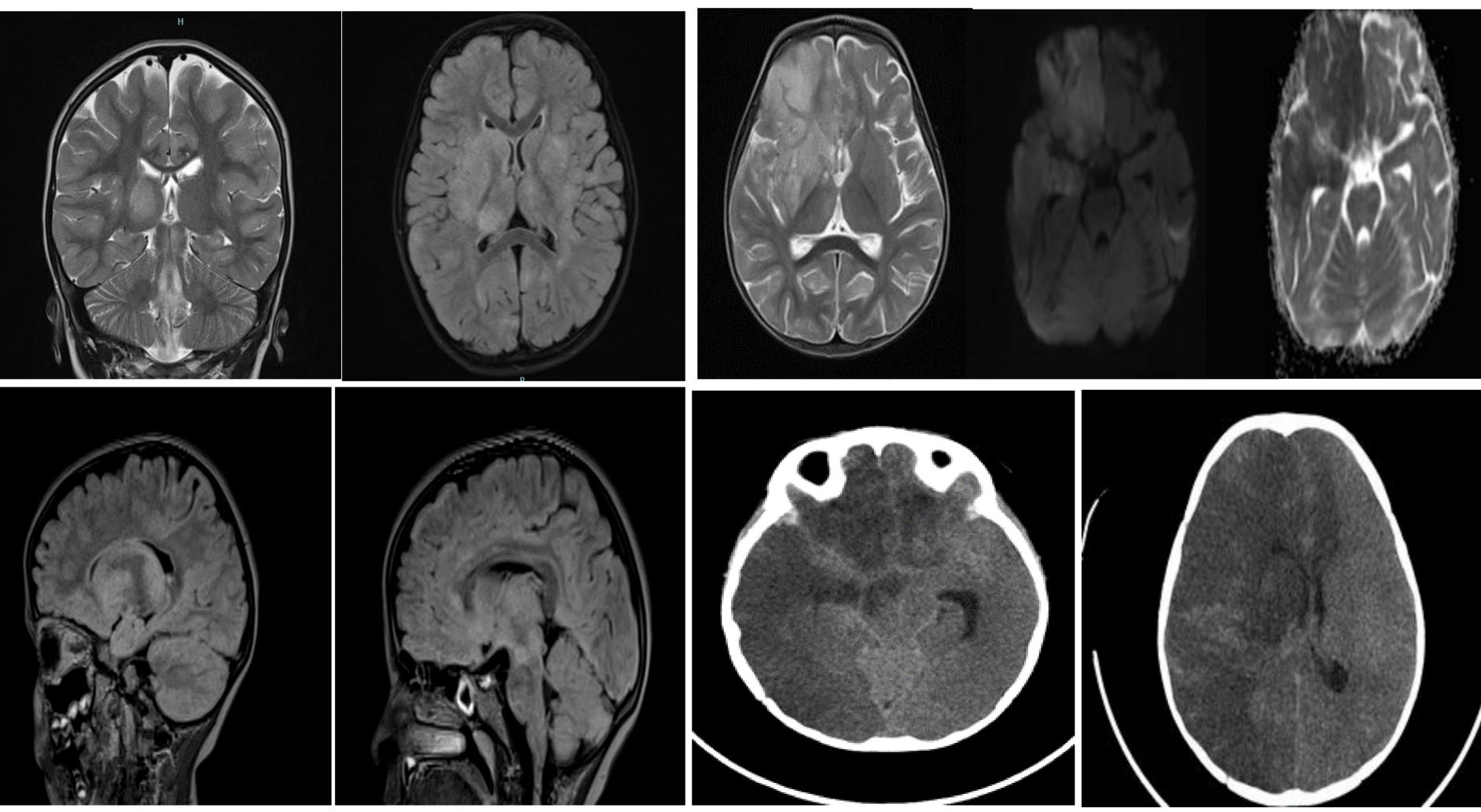
MRI brain showed- T2/flair- hyperintense signals in bilateral thalami, basal ganglia, brainstem, cortical, subcortical regions. CSF – HHV 6 +ve .Child developed choreo-athetotic movements and dystonia during the hospital course. On discharge, child had neurological deficits – lower limb spasticity. Cognition was normal

MATERIAL & METHODS

- A retrospective analysis of the clinical and radiological features of children with suspected meningoencephalitis over a 5 year period was done.
- □ All confirmed cases of HHV 6 encephalitis, as per the results of film array meningoencephlitis panel were reviewed in the electronic medical records.
- The clinical profile along with results of investigations, CSF study and neuroimaging features and the outcome in these children were reviewed and noted.

No of HHV – 6 encephalitis	10
Seizures	5/10
Altered sensorium	5/10
Abnormal CSF study	5/10
MRI abnormalities	4/10
Parenchymal abnormalities	3/10
Meningeal enhancement	4/10
Poor outcome	2/10 (1- death , 1- sequalae)





A case series of HHV -6 encephalitis with clinic-radiological profile in children at a tertiary care centre

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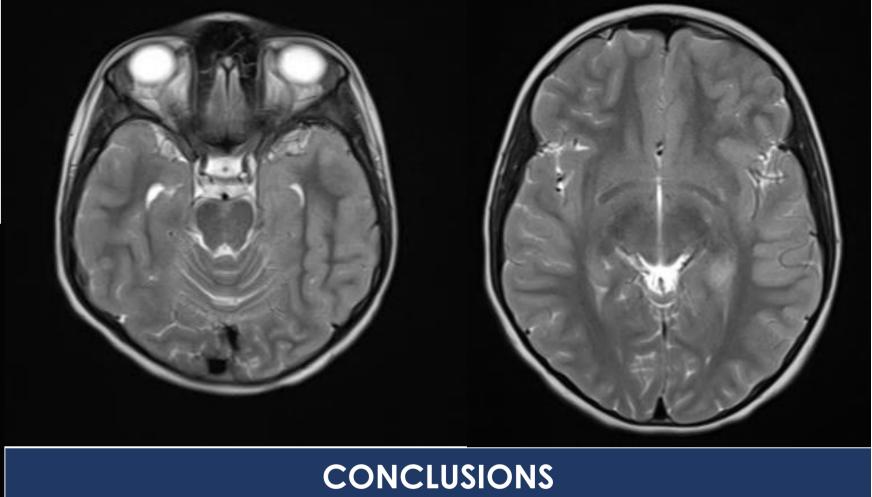
KIMS HEALTH , TRIVANDRUM

RESULTS

MRI brain showed – severely edematous right hemisphere with diffusion restriction and midline shift with leptomeningeal enhancement. Child had refractory seizures and worsening of sensorium with deterioration of vitals, and developed features of raised ICT. Inspite of antiedema measures, general condition deteriorated and child succumbed to death.

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Brain temporal lobe. Child improved within hospitalisation and recovered completely neurological deficits.



The clinical and radiological manifestations of HHV 6 encephalitis presents a wide spectrum from mild illness to severe neurological deficits and even death.

HHV 6 mortality in immunocompetent children is rather rare with very few case reports in the literature.

HHV – 6 encephalitis is a diagnostic possibility in any child with acute CNS infection and has a variable prognosis with plausible treatment strategies

REFERENCES

Sevilla-Acosta F, Araya Amador J, Ulate-Campos A. Human Herpesvirus 6 Associated Encephalitis with Fulminant Brain Edema in a Previously Healthy Child. Cureus. 2020 May 7;12(5):e8018





