



Abstract G63(P) Figure 3 Deaths in correlation with age, severe malnutrition and CSF culture positivity n = 20

25% with fits
10% with crying
23% with altered conscious level
13% with signs of meningeal irritation

Vaccination was incomplete in 7% unvaccinated 45% and vaccinated 48%.

Complications 1% had hydrocephalus, 0.5% had subdural effusions, 4.5% had motor loss 10% have seizures maximum no of deaths less than 1 year. Malnutrition was associated with deaths in 31% and csf culture positivity in 25% (Figures 1, 2, 3).

Conclusion Maximum no of deaths in males under 1 year, 33% with malnutrition, 25% with csf culture positivity coagulase negative staph aureus and streptococcus pneumonia were two most common pathogens in culture.

Mortality under one year was maximum and associated with streptococcus pneumonia.

G64(P) FOCAL SEIZURE, HEMIPARESIS, HEMIPLAGIA AND NMDA RECEPTOR ANTIBODY ENCEPHALITIS – ATYPICAL PRESENTATION

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Aim We present an atypical case of NMDAR Ab Encephalitis (N-methyl-D-Aspartate Receptor Antibody Encephalitis) with recurrent right sided focal seizures, right hemiparesis and hemiplegia. The youngest case in UK to be described without significant psychiatric component.

Methods 4 years 10 month old girl born in UK to Zimbabwean Parents. She had been well with not relevant family history. She presented with right sided focal seizure and reduced movement. She had 2 episodes of generalised tonic convulsions involving the right side associated with loss of consciousness which lasted for 2 min and then 10 min; 5 min apart. The seizures were managed with diazepam. No preceding trauma, fever, neck pain, headache or vomiting. Her right sided weakness which improved within 2 h.

She was then re admitted 4 days later with right focal seizure with persisting right sided weakness, dysarthria and right sided facial palsy. She had amnesia without any new psychotic features

Baseline blood and CSF Investigation were normal. Lyme serology, ASOT, Lupus screen, all viral PCR and throat swab were negative. ECG, Echo and EEG was normal. CSF amino acid, ammonia, Lyme titre, oligoclonal bands, mitochondrial

DNA, acylcarnitine profile was normal. MRI showed possible left MCA infarct with a picture of encephalitis with oedema.

She was treated with antibiotics, lorazepam, Aspirin and Omeprazole. Repeat MRI ruled out a stroke so Aspirin was stopped and started on IV methylprednisolone.

Repeated MRI brain suggested an inflammatory process with evidence of maturing damage suggestive of neurometabolic or neuroinflammatory disorder. Importantly the CSF and blood NMDAR antibody returned positive with rising titres of blood NMDAR ab.

Results NMDA Receptor Antibody Encephalitis was diagnosed and treated with Prednisolone 30 mg OD for 8/52, advised avoiding live vaccines and IVIG 1 g/kg for 2/7. MMF 200 mg BD planned for 18–24 months- dose to be adjusted based on response. Monthly NMDAR ab blood and CSF have been positive for 10 months after diagnosis. She is on Annual surveillance for tumours with MRI or USS. She continues to have physiotherapy and Neuropsychology input.

Conclusion Atypical focal seizures may need further evaluation and NMDAR ab considered with atypical presentations resulting in better outcome.

G65(P) NEUROPSYCHIATRIC PRESENTATION OF ANTIBODY NEGATIVE LIMBIC ENCEPHALITIS

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Autoimmune encephalitis is an increasingly recognised cause for a combination of symptoms of seizures, disturbance of memory, behaviour and cognition. Other manifestations include acute onset movement disorders, unexplained encephalopathy and refractory status epilepticus. N-methyl aspartate (NMDA) encephalitis and voltage gated potassium channel mediated (VGKC) limbic encephalitis are the two commonest causes of autoimmune encephalitis. These children initially present to general paediatricians therefore it is vital to consider this in the differential diagnosis of infective encephalitis as prompt recognition, investigation and immune therapy determines longterm outcome. Early recognition and treatment can potentially halt temporal lobe atrophy and improve outcome.

We report a 14 year old girl who presented with symptomatic, intermittent memory loss, behaviour disturbance, fatigue and cognitive change with limbic encephalitis. Initial investigations revealed negative PCR for HSV, EBV. Brain imaging detected mesial right temporal high signal area in FLAIR sequences. EEG showed epileptic inter-ictal focal abnormality over right frontal mesial temporal region. NMDA, VGKC, Anti GAD, Hu, Ma, CV2, CRMP5 and thyroid antibodies were negative. Screening for tumour with baseline abdominal ultrasound and CXR were negative. Baseline WISC testing prior to starting medications revealed her immediate memory for verbal information was in the low average range (verbal immediate index score:82,12th percentile) and her time delayed recall verbal information was in the impaired range (verbal delayed index score:72, 3rd percentile). She was treated with iv methylprednisolone followed by tapering dose of oral prednisolone. Repeat WISC assessment is due in 6 months.

Limbic encephalitis should be considered in children with prominent neuropsychiatric manifestation of encephalitis. Her future MRI reports will determine the 3 month and 6 month