time, levels of coagulation factors and albumin, bicitopenia, but with normal ALT and bilirubin; only AST and GGT were minimally above the upper normal limit). Esophagagogastroduodenoscopy revealed esophageal varices grade I and portal gastropathy due to portal hypertension. Kayser Fleischer ring was present. Low ceruloplasmin levels and positive penicillamine test further confirmed the suspicion for Wilson’s disease which was confirmed by genetic testing that showed homozygous H1069Q mutation. Once the diagnosis was established, we gathered a multidisciplinary team which included neurologist, gastroenterologist, hematologist, cardiologist, nephrologist, rheumatologist, endocrinologist, dietitian, and psychologist. There were no signs of renal tubular damage and the heart was structurally healthy.

Penicillamine was gradually introduced, but not to the maximum dose recommended by the European Society for Paediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN). One week later zinc acetate was added into the therapy. We have chosen this scheme because of the risk of hematological complications at the penicillamine full dose. Vitamin D and calcium supplementation was introduced due to reduced bone density. Other supportive therapy included a copper-free diet, high-energy oral nutritional supplement adjusted for patients with liver disease, MCT oil, and gastroprotection. Two months after initiation of therapy cupriuria is threefold increased as compared to the initial values suggesting efficacy of therapy. She has not had side effects with this combination therapy.

Although the most common presentation of Wilson’s disease in childhood includes liver disease, we should be aware of its possibility to present with neurological symptoms without obvious clinical signs of liver disease, despite the existence of cirrhosis. A multidisciplinary team is required to monitor possible complications of the disease, side effects of the therapy and offer psychological support to the patient and their family.


2) Retrospective case notes analysis following first paediatric assessment.

1) Number of referrals declined by more than 20% during pandemic, especially from general practitioners.

2) In 2019 cohort (pre-pandemic), 55% of the cases were seen within 14 days of referral compared to 42% in 2020 cohort (during pandemic).

3) More than half of the referrals were diagnosed as non epileptic events after specialist review. However, the outcome was better in 2020 cohort compared to the previous year.

1) The pandemic is likely to have contributed to the decline in number of referrals and resulted in more delays to clinic appointments due to limited clinic slots imposed by the pandemic restrictions.

2) Local measures to enhance referral pathway to ensure suspected epileptic seizure cases to be seen or assessed within 14 days as per guideline:
   - Clear signpost to secretaries for clinic allocations.
   - Creating a group email for epilepsy team as one of the pathways for referral. This will make correspondence easier for both ends and aids in filtering process as well as expediting clinic appointment.
   - Encourage a phone triage in cases where the diagnosis of epileptic event isn’t obvious.

3) Liaise with IT department to add a few prompts for filtering and checklists before providing the option of ‘first seizure clinic’ when electronic referral is made. This is meant to facilitate in obtaining relevant information, referral checklists prior to appointment and to ensure referrals are allocated to the right clinic.

3) This audit can be used as a feedback tool for the local healthcare providers both in term of referral outcomes and raising awareness on first seizure referral.

### Abstracts

**394 AUDIT ON FIRST PAEDIATRIC ASSESSMENT OF CHILDREN REFERRED WITH SUSPECTED EPILEPSY BEFORE AND DURING PANDEMIC**

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Diagnosing epilepsy can be complex, and prone to be misdiagnosed between 5–30% of the time. It is therefore important to have specialist review early in all cases of suspected epileptic seizures to facilitate subsequent care and management, as well as to reduce parental anxiety. However, Covid-19 pandemic has added extra challenge for healthcare providers to achieve and maintain this standard of practice.

The objectives are:

1) To audit health care for children with suspected epilepsy against NICE recommendation; NICE guideline recommends all children and young people presenting with a suspected epileptic seizure to be seen by a specialist in the diagnosis and management of the epilepsies within 2 weeks of presentation.

2) To determine the effect of the pandemic on the number of referrals. 3) To look at the outcomes following first assessment for suspected epileptic seizures.

**395 SEVERE NEUROLOGICAL SYMPTOMS IN A 7.5-MONTH-OLD GIRL WITH MEGALOBLASTIC ANAEMIA AND METHYLMALONIC ACIDURIA – CASE REPORT**

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The case report focuses on a 7.5-month-old girl, who was admitted to our hospital because of vomiting, failure to thrive, pathological somnolence and developmental regression. The girl was exclusively breastfed and mother tried to introduce new foods many times with failure. Routine and commonly used laboratory tests showed megaloblastic anaemia and vitamin B12 deficiency. Further investigation revealed methylmalonic aciduria and elevated levels of homocysteine and lactic acid, which provides additional evidence of a functional measure of intracellular B12 levels. After starting vitamin B12 supplementation, a significant improvement in the clinical condition was observed and all symptoms gradually disappeared. Further treatment included supplementation of liposomal vitamin B12, folate acid and...
Gelastic epilepsy are an uncommon seizure type most often symptomatic associated with hypothalamic hamartomas, with a prevalence rate of about 0.5 per 100,000. However, idiopathic and cryptogenic cases with no evidence of cortical structural lesions have also been described. The term gelastic comes from Greek word gelos meaning laughter. Laughter is pathological in nature and can be spontaneous without obvious cause.

We present a 13-year-old girl without structural lesions, manifesting gelastic seizures. The seizures were not associated with feelings of mirth.

Repeated 1.5T MRI revealed no structural abnormality. Interictal EEG showed paroxysms in the right frontal region. Ictal EEG demonstrated diffuse attenuation, followed by fast activities and spike-wave complexes predominantly over the right hemisphere. Unlike the seizure from temporal lobe, semiological investigations revealed that the laughter in our case was not accompanied by a subjective feeling of mirth, and an interictal EEG showed frontal spikes. Results of neurological examination were normal. The Wechsler intelligence scale for children IV(WISC-IV) revealed a mild mental retardation with the intelligence quotient score <70. An interictal FDG-PET CT showed hypometabolism over the right superior frontal lobe and right medial temporal lobe. The seizures were resistant to oxcarbazepine, levetiracetam, valproate and lamotrigine and were suppressed by topiramate monotherapy. Further clinical examinations (high-resolution 3T MRI, ictal and interictal SPECT) will be done.

In conclusion, gelastic seizures are commonly associated with hypothalamic hamartomas but ictal laughing, has been reported with temporal lobe and frontal lobe seizures. Although gelastic seizures have been described as intractable, a few medications including valproic acid, lamotrigine, levetiracetam and steroids were reported to be effective in patients without hypothalamic hamartoma. In our patient topiramate monotherapy proved to be effective in the treatment of gelastic seizures without hypothalamic hamartoma.