G300 PERINATAL ARTERIAL ISCHAEMIC STROKE – A MULTI-LEVEL COLLABORATIVE RETROSPECTIVE REGIONAL STUDY

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Aims Perinatal arterial ischaemic stroke (PAIS) presents in the neonatal period or later (presumed cases) and is a leading cause of hemiplegic cerebral palsy. Accurate estimation of the incidence and disease burden is challenging and studies of presumed cases are few. Our region covers 5 counties and has a population of approximately 5 million. We aim to review the regional clinical and radiological characteristics of children with PAIS through collaboration between one tertiary neonatal centre and an epilepsy network. The preliminary data is presented.

Methods Term neonates diagnosed with acute PAIS presenting to the tertiary neonatal unit in 2014 and 2015 were identified through electronic patient record (Badgernet) and a local database. Presumed PAIS cases presenting to the tertiary paediatric neurology unit between 2011–2015 were identified through clinical coding. Members of an established regional epilepsy network consisting of community, secondary, and tertiary paediatric clinicians were invited to identify local presumed PAIS cases over the same time period. Retrospective data was collected through medical records. Results have been received from 6 units to date and data collection is ongoing.

Results

- Neonatal cases all presented with seizures. While the majority (78%) of presumed cases presented with pathological handedness, there is a male (60%) and left sided infarct (62.5%) predominance.
- 21% of infants with presumed PAIS cases had neonatal symptoms. These included changes in muscle tone (60%), level of alertness (20%) and feeding problems (40%).
- Amongst all PAIS cases there was a significant burden of language (31%), visual (21%), behavioural (10%) and learning impairment (26%) in addition to the recognised movement difficulties and seizures.

Conclusion The clinical characteristics of PAIS in our region are similar to the published literature. Clinicians should have a high index of suspicion in neonatal cases of unexplained changes in muscle tone, respiratory or feeding difficulties which may lead to earlier diagnosis and intervention. Ongoing studies using a network approach would allow presentation of the wider spectrum of PAIS, producing more representative clinical data.

G301 CEREBRAL VENOUS THROMBOSIS IN CHILDHOOD TUBERCULOUS MENINGITIS

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Background Few case reports have described cerebral venous sinus thrombosis (CVT) in children with tuberculosis and tubercular meningitis.

Aims and objectives To determine incidence of CVT in children with tubercular meningitis

Methods This was a single centre prospective cohort of children diagnosed with TBM. The neuroimaging of children with TBM were prospectively evaluated for CVT. Children with CVT were treated with anti-epileptic drugs, steroids and anti-coagulation. Outcome was assessed using Paediatric Cerebral Performance Category Scale

Results 255 children with tubercular meningitis were evaluated out of which twelve children (4.7%) had CVT. Median Age at diagnosis was 24 month (range 12–120 months). Median duration of symptoms was 59.5 days (IQR 30.5–77.5 days, range 18–159 days). Only one child had CVT at admission while ten children (83%) were suspected to have CVST on CT scan subsequent to drainage of hydrocephalous. CVT was symptomatic in 33% of children. Eleven children had involvement of superior sagittal sinus, six had involvement of transverse sinus, four had sigmoid sinus while one child also had affection of straight sinus. Two children succumbed during treatment. Protein C was deficient in one child while protein S was deficient in 3 children. Median Duration of follow up was 8 months. 2 children had normal functioning, 1 has severe disability, 5 are in vegetative state, one has moderate disability and cognitive impairment and 3 children have died

Conclusion CVT in TBM is not common and needs to be considered in any child who fails to have improvement in sensorium after CSF drainage procedure.

G302 COMPARISON OF 4-WEEKS VERSUS 12-WEEKS ANTI-CONVULSANT THERAPY FOR ACUTE SYMPTOMATIC SEIZURES IN CHILDREN WITH ACUTE ENCEPHALITIS SYNDROME- AN OPEN-LABEL, RANDOMISED CONTROLLED TRIAL

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Background There exists poor evidence-base and conflicting literature regarding optimum duration of anti-epileptic drugs for acute symptomatic seizures in central nervous system infections. A duration of one to three-months of anti-epileptic drugs has been suggested for central nervous system infections with parenchymal involvement. The study was designed to compare the effectiveness of 4 weeks versus 12 weeks anti-convulsant treatment in preventing seizure recurrences over a six-month period.

Methods Children aged 3 months to 12 years having Acute Encephalitis Syndrome with acute symptomatic seizures receiving single anti-epileptic drug at 4 weeks of illness and without seizure recurrence from day 7 day 28 of illness were included in this comparative, parallel group assignment, open label, randomised control study. The exclusion criteria were included children with chronic meningitis, brain abscess, intracranial space occupying lesion, prior history of seizures, prior focal neurological deficit or any developmental delay, children suffering from HIV, chronic liver/kidney disease, acute hepatic encephalopathy. Children on >2 anti-epileptic drugs, severely affected children (Paediatric Cerebral Performance Category Scale (PCPC) Score and Paediatric Overall Performance Category Scale with category score of 5) were also excluded. They were randomly allocated to receive anti-epileptic drugs either...