PP082 A CASE OF CHILDHOOD STROKE

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INTRODUCTION:

Haemorrhagic stroke in children is rare with incidence of approximately 1 to 1.7 in 100 000 per annum. Early recognition and timely management are crucial in preserving cerebral function, promoting healing and recovery.

CASE REPORT:

An 8-year old girl was brought into our Emergency Department (ED) for altered mental status preceded by sudden headache, with projectile vomiting. She was previously well and had no recent trauma. Patient was an ex-premature at 30-week as her mother had preeclampsia. Upon reassessment. her Glasgow Coma Scale (GCS) was E₂V₂M₅, pupils were reactive to light and her vitals showed no panoply of Cushing reflex. Elective intubation was performed for cerebral protection. Computerized Tomography (CT) brain demonstrated cerebellar haemorrhage hydrocephalus. with acute Decompression craniotomy and frontal extraventricular drain were performed. She made a conspicuous recovery with no neurological complications. Subsequent CT Angiography and Magnetic Resonance Angiography of the brain showed no abnormal vasculatures. Patient's full blood count and coagulation profile were normal. Unfortunately, there were no further haematological neither autoimmune testing done for this child.

DISCUSSION:

Most common cause of childhood haemorrhagic stroke is vascular malformation followed by haematological disorder and neoplasm. Digital subtraction angiography remains the gold standard imaging to diagnose Arteriovenous Malformation (AVM). Cryptic AVM, also known as "hidden" or small AVM, buried at brain parenchyma is sometimes not evident through angiography. Its diagnosis is infrequently made during surgery or autopsy. However, majority of the cases remain idiopathic which some may speculate it could be due to vasculitis. Haematological abnormalities that might provoke haemorrhagic stroke in children are thrombocytopenia, haemophilia and coagulopathies. Outcome is generally favourable in children over 2 years, who experience more complications due to impaired cerebral autoregulation. Prognosis is based on clinical condition during admission, volume and location of bleed. Cerebellar is found to be an

egregious site for haemorrhagic stroke in children and it is often been affiliated with unfavourable outcome.

CONCLUSION:

A high index of suspicion, early recognition and timely management are paramount in coping with haemorrhagic stroke in children. Intracranial haemorrhage remains a debilitating disease considerably, especially when there is no identifiable underlying cause. We are glad our patient made a remarkable recovery.