person-years, White British obese had 1,555 consultations per 1000 person-years; prescriptions: Pakistani obese had 4,421 prescriptions per 1000 person-years, White British obese had 2,056 prescriptions per 1000 person-years).

Conclusions Obese children in both groups had on average more primary care consultations and a greater number of prescriptions. This association was moderated by ethnicity with Pakistani children having significantly higher rates. These findings underline the importance of reducing childhood obesity and highlight the need for further research to understand the differences in use of primary care services between different ethnic communities.

British Paediatric Neurology Association

1497 ENDOVASCULAR TREATMENT OF CEREBRAL VENOUS SINUS THROMBOSIS IN CHILDREN: A SCOPING REVIEW

Alex Fung, George Hudson, Shoomena Anil. University of Cambridge

Background Cerebral venous sinus thrombosis (CVST) is a cerebrovascular disease that typically affects children and young children. Its clinical presentation is highly variable and non-specific, making diagnosis extremely difficult. Systemic anticoagulation is the first-line treatment, with the aim of minimizing thrombus extension and achieving recanalisation. However, many patients deteriorate despite maximal anticoagulation. The clinical heterogeneity, low incidence and paucity of clinical trials on CVST have created significant uncertainty and variability in how patients not responding to anticoagulation are managed. Endovascular treatment is an option in these patients. However, there is particularly limited evidence for its use in children. We present the first scoping review of endovascular interventions for CVST in children.

Objectives To collate, describe and assess the literature on endovascular interventions available for CVST in children, with the aim of guiding future research and the development of clinical guidelines.

Methods A systematic scoping review on both primary and secondary research on endovascular interventions for CVST specifically in children (aged 1 month - 16 years) was conducted according to PRISMA-ScR guidelines. Studies were identified using the databases PubMed, Embase, Cochrane Library and OpenGrey. 226 studies were identified using our search strategy on 16th October 2020. Following application of eligibility criteria, 48 studies were included for analysis.

Results Case reports (n=15) and case series (n=15) comprised the majority of the studies. 12 narrative reviews and 1 systematic review were identified. Only 1 non-randomised intervention study and 4 observational studies were identified. No randomised controlled studies were identified. 54 unique, individual children with CVST with detailed information of their diagnosis and endovascular intervention reported were identified across 32 studies. 83% of patients had at least one risk factor for CVST, with inflammatory bowel disease (15%) and dehydration (15%) being the most common. 74% of cases had a bland (i.e. non-haemorrhagic) infarct identified on diagnostic imaging, whilst 26% had a haemorrhagic infarct. The majority (65%) of patients received systemic anticoagulation with heparin before endovascular intervention. 11% did not receive any kind of systemic anticoagulation prior to endovascular intervention, mostly due to rapid, progressive neurological deterioration with anticoagulation started afterwards. The most common indications for endovascular treatment were declining GCS (46%) and worsening/non-improving symptoms despite anticoagulation (35%). Local catheter-guided pharmacological thrombolysis with urokinase or recombinant tissue plasminogen activator was the most commonly used intervention (83%). A combination of endovascular interventions was used in 35% of patients. Complete symptom resolution and complete recanalisation was achieved in 63% and 44% of patients, respectively. 9% of patients died despite endovascular treatment.

Conclusions The literature reports the use of endovascular interventions for children with progressively worsening symptoms or declining neurological status despite anticoagulation and children in whom anticoagulation is contraindicated. However, there is no consensus on how patients are deemed to be unresponsive to anticoagulation and suitable for endovascular treatment. Cohort studies and randomised controlled trials are needed to robustly assess the efficacy and safety of these interventions in children.

Quality Improvement and Patient Safety

1499 TO MEASURE THE NOISE INTENSITY IN OUR NEONATAL UNIT AND RAISE THE AWARENESS ABOUT ITS IMPACT ON PRETERM GROWTH AND DEVELOPMENT

1Jatinder Khipal, 2Patricia Coimbra, 2Donna Price, 2Gopa Sarkar. 1NHS-Thames valley (Buckinghamshire); 2NHS-Buckinghamshire

Background Preterm babies who were shielded by the intraternal environment, when suddenly exposed to higher decibels of loudness can have a serious impact on growth and development which can lead to hearing loss and altered behaviour and feeding pattern. The awareness of neonatal unit staff is of utmost importance to bring about the change in preterm neonatal care.

Objectives This study investigates the overall sound general noise present in the Neonatal Unit in Stoke Mandeville Hospital and evaluates the perception and knowledge of the staff regarding noise exposure to the neonates.

Methods The noise was measured using the highly recommended and rated software called Decibel Meter for a period of twelve hours during the day and night in different areas of the three nurseries in the unit. Loudness was measured in decibels and the results were analyzed using Excel software. Confounding factors like battery value of device, person measuring the value have been considered.

To measure the awareness of staff members about this topic, questionnaires with multiple questions and open answers were handed out to all members present on the unit and again the results were analyzed using Excel software.

Results Our analysis showed that the mean noise detected in all areas was between 49–56dB. The intensive care and high dependency nursery being the loudest, ranging from 54dB during the day to 56dB overnight, particularly loud near the nursing desk with a mean dB of 55. Specific