Blood borne infections in looked after children

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Introduction
Looked after children (LAC) can be vulnerable in many ways. Some of the social risk factors that contribute to the likelihood that a child is ‘looked after’ also increase the probability of exposure to blood borne infections (BBI) such as human immunodeficiency virus (HIV), Hepatitis B, Hepatitis C, and syphilis. However, there is lack of data on the incidence of these infections in LAC.

Method
We looked at the practice of BBI screens in LAC in our unit over a one-year period.

Results
A total of 347 children (excluding asylum seekers) were seen in LAC clinic between January 2018 – January 2019. Of these, 12.7% (n=44) had a BBI screen. There was only one patient (2.3%) who had a true positive result; this patient was screened due to a maternal diagnosis of hepatitis. 15.9% of those screened were antibody positive only (6.8% for treponema antibodies, 6.8% for hepatitis C IgG antibodies and 2.3% for hepatitis B core and surface antibodies). All of these children were <4 weeks of age and the presence of these antibodies is likely due to maternal placental antibody transfer. They are awaiting repeat testing as per guidelines. The reason for screening were parental intravenous substance misuse (65.9%), family history of BBI (31.8%), limited parental information (2.3%), personal drug use (2.3%), unprotected sexual activity, and exposure to HIV (2.3%). The reason was unknown in 2.3%, however this was because screening was undertaken in a different hospital. 4 patients were screened for more than one risk factor. We also picked up one patient who was not screened despite the medical request for a BBI screen.

Conclusion
From the patients seen in LAC clinic, 87.3% did not have a BBI screen, and patients were screened in accordance with British Association for Adoption and Fostering note, 23 of the individuals had a diagnosed behavioural condition (attention deficit hyperactivity disorder, autism and non-specified developmental disorder) accounting for 50% of the patients with a medical condition; 27% of the total study population. Only 8 (9%) of the total cohort were known to social care. More than 25% had not presented to the emergency department before whereas 16 had had one presentation and 47 had more than one presentation. Notably, there were 4 patients who had 20 or more presentations suggesting this cohort had difficulties in accessing routine health care.

Conclusions
Whilst a link between neglect and dental extraction is well established, an alternative area to be targeted for intervention has been highlighted during this retrospective study noting that children with behavioural conditions account for more than 25% of children undergoing dental extraction. Further work should look into the reasons underpinning this, whether this is related to poor diet, poor dental hygiene, a reluctance to visit the dentist or a mixture of the three. This data could then help to provide a targeted public health message to promote dental health in children with additional learning needs.

G284(P) ABSTRACT WITHDRAWN

G285(P) DENTAL EXTRACTIONS IN THE PAEDIATRIC POPULATION: IDENTIFYING PHYSICAL AND PSYCHOLOGICAL HEALTH CONDITIONS THAT PRESENT AN OPPORTUNITY FOR TARGETED PROMOTION OF DENTAL HEALTH

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Introduction
NHS figures have shown an increasing number of children undergoing tooth extractions in the UK with 170 children a day having decayed teeth removed with an estimated cost per year to the NHS of £36 million.

Objectives
To identify if links exist between neglect, complex physical health needs and dental extractions in our population

Methods
Review of all cases of dental extractions in paediatric patients in a 12 month period at a busy London district general hospital, identifying the patient’s past medical history, whether or not they were known to social services and how many times they had presented to A&E previously.

Results
There were 87 cases identified that fitted the inclusion criteria. The age range of cases was 2–17 years, with an average age of 5.37 years; 38 were female and 49 male. 41 of the patients had no known medical history. 19 had one condition and 27 had more than one condition. Of
guidelines. The majority of children screened did not have a BBI. This data highlights that we do not know the incidence of BBI in LAC. Larger data sets would be needed to investigating this further to determine the incidence and help guide our screening practice.

### Abstract G287(P) Table 1

<table>
<thead>
<tr>
<th>Healthcare Event</th>
<th>Change in Anxiety</th>
<th>(n=134)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No change</td>
<td>Increase</td>
</tr>
<tr>
<td>Going to hospital</td>
<td>18(13.4%)</td>
<td>40(30.6%)</td>
</tr>
<tr>
<td>Going in an ambulance</td>
<td>23(17.2%)</td>
<td>50(37.3%)</td>
</tr>
<tr>
<td>Having an X-ray</td>
<td>18(13.4%)</td>
<td>86(64.0%)</td>
</tr>
<tr>
<td>Having surgery</td>
<td>29(21.6%)</td>
<td>13(9.7%)</td>
</tr>
<tr>
<td>Visiting the dentist</td>
<td>42(31.3%)</td>
<td>107(80.5%)</td>
</tr>
<tr>
<td>Someone using a stethoscope</td>
<td>41(30.6%)</td>
<td>21(15.5%)</td>
</tr>
</tbody>
</table>

Children’s fears of the hospital environment and the effectiveness of Teddy Bear Hospital

Aims Children attending hospital have fears and concerns, often due to a lack of familiarity with the medical environment. Medical students are often unconfident when interacting with children. Poor communication can adversely affect patient care and patient experience.

Teddy Bear Hospital (TBH) is an international scheme where medical students run interactive clinics teaching healthcare topics at local schools in South London. There is currently limited research on its effectiveness. This study aims to evaluate the effect of TBH on:

- Children’s knowledge and anxiety regarding the medical environment in hospitals
- Medical students’ confidence in interacting with children

Methods This prospective study was conducted over six months in 2018. Three questionnaires (designed with input from a Clinical Child Psychologist) were completed:

- Knowledge before and after clinic
- Matched Likert scales for ‘worry’ before and after clinic
- Volunteer questionnaire after clinic

The McNemar-Bowker test of symmetry was used to test for change in the children’s subjective feelings.

Results 153 children were encountered at 4 interactive clinics. Knowledge of all topics tested increased after the TBH clinic. Fewer children felt ‘worried’/‘very worried’ after the clinic in all topics with the most significant decrease noted in going to the hospital (83.6%, P<0.05) (Table 1). All volunteers had increased confidence in interacting with children.

Conclusion TBH reduces children’s fears while increasing their knowledge of the hospital medical environment and improving medical students’ confidence in interacting with children. Adding a TBH clinic to the medical school curriculum may be a worthwhile consideration.

### Abstract G288(P) Withdrawn

### Abstract G289(P)

Aims There is growing appreciation of the evolving difficulties for children placed in adoptive/special guardianship order (SGO) families, and the need for specialist input. Previous local service review identified 7/51 children adopted with no initial developmental difficulties recognised who were subsequently re-referred to community paediatrics. Consequently, an innovative service was established to enable review by a consultant with expertise in adoption and looked after children. This evaluation aimed to examine parental perspectives on the value of this service.

Methods 27 parent/guardian questionnaires were posted following clinic review and initial actions. Parents were asked to report on a 5-point scale (‘strongly agreed’ to ‘strongly disagreed’) if being reviewed in the clinic: a) helped their child, b) benefited from seeing a professional with adoption expertise, or c) offered opportunities to discuss concerns. Free text responses were also encouraged to ascertain what was helpful, and suggestions for improvement. 12 families were additionally asked to complete PedsQL and SDQ forms.

Results A high proportion of questionnaires 16 (59%) were returned. Of these, 13 (81%) agreed/strongly agreed the clinic had helped their child. 13 (81%) agreed/strongly agreed their child benefitted from review with a professional with expertise in adoption. 16 (100%) agreed/strongly agreed that they, as parents, benefitted from discussing concerns with an adoption professional.

14 questionnaires had additional comments, thematic analysis of which revealed that parents largely appreciated the consultation style and professional understanding of the different complex aspects of their child’s life. Suggestions for improvement included: direct liaison with school, and the ability to have direct consultant contact.

Conclusion This evaluation demonstrated positive parental experience from this innovative clinic for children and young people following adoption/SGO. This value is especially important given the unmet need in this group around unidentified developmental difficulties, the complexity/heterogeneity of these issues, and the need for improved information gathering. These findings will be used to advocate for increased resources locally and may provide evidence for other services to offer a similar pathway.