chart plotting and intravenous fluid prescription respectively. All confidence intervals contained zero. Therefore, we are unable to reject the null hypothesis that there is no correlation between perception and performance. The Sign Test is highly significant in all 3 areas, with P < 0.001, which indicates clear bias in the direction of more optimistic expectations than reality.

Conclusion The assumption that students are able to indicate assurances in skill performance is disproven. Lack of correlation between perception and performance would put a greater emphasis on continued assessment of medical students and doctors in training.

**TRIAL OF A HANDHELD VEIN ILLUMINATOR IN AN ACUTE PAEDIATRIC DEPARTMENT**

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10.1136/archdischild-2015-308599.305

Aim Invasive procedures including venepuncture and venous cannulation are distressing experiences for ill children. Painful past experiences and needle phobia can cause the procedure to be more traumatic for the child and more difficult for healthcare professionals. Devices using near infra-red spectroscopy can aid the accurate location of superficial veins thus reducing the number of attempts and time taken to undertake these procedures, and aim to reduce the stress for all involved. The purpose of this study was to evaluate the usefulness and acceptability of a commercially available portable vein illuminator in two acute paediatric departments.

Methods A range of health professionals used the device for venepuncture and venous cannulation in children presenting with acute or chronic illness to the departments. A structured questionnaire was completed by the user once the procedure was completed.

Results 40 patients were enrolled in this study (males = 23, females = 17, mean age 4.8 years). Thirty six children underwent venepuncture and 4 underwent venous cannulation. The procedure was completed by registrar in 4 children, by a senior house officer in 24 children and by a nurse in 12 children. Sixty five per cent found the visibility of the veins improved, 5% found the visibility worse, and 30% were neutral. The device was found to be very acceptable or acceptable to parents and children in 92.5% and was graded very useful or useful in 65% and not useful in 35%.

Conclusion The device was found to be useful and acceptable and did aid with phlebotomy within the departments. The best results were seen in younger children whose superficial veins were not visible to the naked eye. Further studies are required with a larger sample size including a wide range of ethnic groups, and ideally with a comparison group.

**THE INTRODUCTION OF A REGULAR PRESCRIBING AUDIT AND TRAINING SESSION FOR PAEDIATRIC DOCTORS**

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10.1136/archdischild-2015-308599.306

Background A recent UK study showed that the prevalence of medication errors in children could be as high as 13.2% compared to a previously documented range of 2–14%. To tackle this, a pharmacist led session for all new junior doctors rotating into paediatrics was instigated in a DGH to raise awareness of the issues associated with prescribing in children.

Aim To implement prescribing audit and training sessions to all grade of paediatric medical staff.

Method To further evaluate and enhance the impact of the induction training, an audit was developed based upon the Trust Medicines Management ten prescribing standards. All doctors in attendance at a regular training meeting were split into two groups, each with a mix of grade of staff. Each group evaluated five drug charts taken from the inpatient ward, against the Trust standards. Results were fed back immediately using computer software with time for reflection and discussion followed by a presentation regarding the implications of poor prescribing. Feedback was sought from participants following the session. The audit was carried out twice during the junior rotation, to identify improvements and concerns.
Abstracts

**Introduction** A two year old girl presented with prolonged bleeding following a fall. A strong family history of haemophilia was ignored during visits to health professionals due to the misconception that female carriers are unaffected! She was extensively investigated and was found to have Factor VIII deficiency which did not respond to Tranexamic acid and Desmopressin. This was discovered three weeks prior to her preoperative assessment for an adenotonsillectomy. Routine pre op checks, which do not always involve clotting and the above misconception, could have affected her severely perioperatively. This case highlights the importance of detailed history taking including family history and remembering that Haemophilia can, and does affect females.

**Case report** AG was born without complication, at term by forceps delivery. Mother had heavy postpartum bleeding. She developed obstructive sleep apnoea, and adeno-tonsillitis was planned. Three weeks before her pre-operative assessment she fell, tearing her frenulum. Persistent bleeding led to a paediatric assessment. Initial investigation revealed her haemoglobin was 88, APTT 1.5 and APTT ratio 45 and rest normal. Further investigation revealed low Factor VIIIc levels (36), 72% of expected. Other factors were normal. Detailed history taking revealed a family history of Factor VIII deficiency (maternal grandmother: carrier, maternal aunt: affected). AG received Tranexamic Acid and a Desmopressin infusion, followed by a Factor VIII infusion at the Haematology unit due to persistent bleeding. Communications between ENT a haematologist is ongoing to carry out a safe surgery.

**Conclusion** This was a near miss event which will require ongoing care from a consultant haematologist. Clinicians need to be aware that Haemophilia can, and does, affect females. 28% of female carriers of Haemophilia A are known to have Factor VIII levels consistent with mild Haemophilia. This case should raise our awareness about thorough history taking, and updating our knowledge about Haemophilia, to avoid future catastrophes. There are also important implications for her mother. We

**Results** A total of 22 doctors attended the sessions. Adherence to the overall standards improved from 58 in the 1st session to 72% in the 2nd. An improvement was seen in six standards, compliance maintained in two and a fall in compliance noted in two standards. A further re-audit over a three week period found an improvement in these two deteriorated standards, with an overall adherence of 90%. Feedback from the sessions was very positive with a suggestion for other audits to be carried out in a similar format. A three week audit at another paediatric unit within the same Trust where no similar training sessions were performed found adherence to the standards of 70%.

**Conclusion** The introduction of a programme which utilised the prescribers themselves enabled a level of engagement and a greater understanding of the standards required. A significant improvement in prescribing was noted over the period of assessment which, following repeated sessions, is expected to be maintained.

**HAS THE RISING INCIDENCE OF PAEDIATRIC INFLAMMATORY BOWEL DISEASE IN OUR REGION STABILISED?**

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**British Society for Paediatric and Adolescent Rheumatology and British Society of Paediatric Gastroenterology, Hepatology and Nutrition**

**HAEMOPHILIA: A LOT TO LEARN FROM A NEAR MISS EVENT**

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**Introduction** Research has shown that restless leg syndrome, restless sleep or insomnia among paediatric population is often related to low iron stores. Dopamine plays a role in neuronal networks including sleep activity. Iron is vital to the brain’s dopamine system and therefore iron deficiency is a contributing factor to sleep disorders. 1.9% of children and 2% of adolescents are affected with restless leg syndrome\(^1\) A 2002 study showed that abnormal iron stores or metabolism may result in restless leg syndrome causing insomnia in teenagers.\(^2\)

**Back ground** To assess teenagers presenting with recent onset sleep problems with respect to presenting complaints, RLS (restless leg syndrome) questionnaire, investigations and measuring outcomes using Modified Paediatric Epworth Sleepiness Scale (Ages 6–16), pre and post treatment.

**Patients and methods** 5 teenagers aged between 14 and 15 years, presenting with excessive day time sleepiness and tiredness referred to sleep clinic in the last 12 months were analysed. They were sent sleep questionnaire prior to clinic visit. They completed the RLS questionnaire in the clinic and the modified paediatric Epworth sleepiness scale. Those found to have Ferritin <50 microgram/L were treated with iron supplements for 3 months along with sleep hygiene and dietary advice.

**Results** 3/5 teenagers had nocturnal leg pains with multiple arousals. The RLS questionnaire was positive for all 5 questions. Epworth sleepiness score was >10. Iron studies showed a mean of 9 mmols/l (10.7–28.6) and ferritin of 9.7 ng/ml (5–204) respectively. Post iron treatment, clinical symptoms and Epworth scoring improved (0–2).

**Conclusion** Sleep related symptoms in these patients were due to the restless legs. This supports the hypothesis that low iron levels may result in RLS causing sleep disturbances in teenagers. Iron studies including ferritin levels in teenagers is indicated with insomnia, excessive daytime sleepiness of unexplained origin even when anaemia is mild or absent.

We recommend commencing iron supplementation for patients with ferritin of <50 ng/L along with sleep hygiene and dietary advice.