ACCEPTABLEITY OF HYPNOTHERAPY AS A TREATMENT OPTION FOR HABIT COUGH

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Aims Cough is a common cause of morbidity in childhood and can have a significant impact on the quality of life of a child and their family. Habit cough is a non-organic cough which occurs during the day but ceases during sleep. There is no established consensus on managing habit cough, but studies in North America have suggested hypnototherapy as a treatment option. We conducted a study to determine the acceptability of this treatment for habit cough.

Methods We conducted a service evaluation where a trained play specialist offered hypnototherapy sessions to children diagnosed with habit cough. A paediatrics trainee conducted semi-structured interviews with parents of patients who underwent hypnototherapy between January 2015 and September 2016. Interviews were recorded, transcribed and analysed for common themes.

Results Nine patients underwent hypnototherapy during our service evaluation period and all nine parents were contacted. Cough was the only symptom in 7 patients, but one patient had a more complex motor tic disorder and one patient had severe anxiety. The habit cough had been present for between four months and three years. All nine parents stated that they found hypnototherapy an acceptable and appropriate treatment option. Four were pleasantly surprised after initially being sceptical. Most parents were unsure what to expect and commented that they were pleased it had worked and would like to have further sessions or similar alternatives in future.

After hypnototherapy, parents reported a significant reduction in cough in 6/9 (67%) children. This included complete cough cessation in 4/9 (44%). The parents of 5 children (56%) stated that after hypnototherapy, cough was no longer affecting their child’s or the family’s quality of life, even despite the absence of complete cough cessation.

Conclusion This is the first study exploring the use of hypnototherapy for habit cough outside of North America. Parents found hypnototherapy to be an acceptable treatment option, and furthermore, it seems to be effective in reducing morbidity and cough cessation in some cases. A future randomised control trial would determine the efficacy of hypnototherapy in treating habit cough.

DO MEDICAL STUDENTS BENEFIT FROM TAKING PART IN SIMULATION TEACHING DURING THEIR CLINICAL PAEDIATRIC ROTATIONS?

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Aim To introduce regular simulation teaching for medical students undertaking their Paediatric rotation in a district general hospital For students in each rotation to attend a minimum of 3-4 simulation sessions during their placement to include basic life support training.

Method

- Questionnaires created which included likert scales as well as free text boxes.
- Students in the first group (February 2017) asked to complete a pre-simulation questionnaire prior to the introduction of simulation teaching as well as a further questionnaire after partaking.
- Students in the remaining rotations were asked to complete a questionnaire after undertaking simulation teaching.
- Paediatric simulation scenarios sought from the University paediatric department and online resources.
- New simulation scenarios designed.
- Planning meetings with hospital medical education department.
- Teaching timetable updated with simulation scenarios built in.

Results

- 3 students complete the pre simulation questionnaire
- 9 students completed the post simulation questionnaire this included 2 graduate entry students.
- 44% had previous experience of simulation teaching as part of a hospital attachment.
- The students attended 2 (33%) or 3 sessions (77%) during their rotation.
- The students found that the simulation scenarios helped them develop interpersonal skills, communication skills particularly through using SBAR and helped them develop specific skills in paediatrics.
- We obtained lots of positive feedback from the students, one student when asked for an overall assessment of the simulation teaching said: ‘Very good, the best way to learn. I would find it useful to do this more often’

Conclusion Simulation for medical students in paediatrics helps them feel better equipped for future practice, helps them develop team working skills and develop specific paediatric clinical and practical skills. We plan for simulation to form a core component of the paediatric clinical rotation in the future. We will continue to write our own simulation scenarios and we plan to add scenarios to discuss safeguarding. Our future plan also include introducing paediatric simulation into the postgraduate teaching programme to include in situ simulation.

EVALUATION OF THE USE OF ANTENATAL MAGNESIUM SULPHATE PRIOR TO IN-UTERO TRANSFER

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Aim To evaluate the regional use of antenatal magnesium sulphate prior to in-utero transfer (IUT) and establish whether this presents an opportune time to target improvement.

Background Premature delivery causes an increased risk of neurodevelopmental disability, accounting for long-term morbidity and reduced quality of life. Evidence demonstrates administering magnesium sulphate in threatened preterm labour reduces risk. In 2009, a Cochrane Review showed a significantly lower outcome of cerebral palsy (RR 0.68, 95% CI: 0.54 to 0.87).

Magnesium sulphate is indicated for delivery expected within 24 hours and gestation between 24+0/40 to 29+6/40. Use can be considered until 33+6/40. Recent data from the National
Neonatal Audit Programme (NNAP) suggests use varies according to level of care but did not differentiate dependent on those transferred in.

**Method** IUT requests are coordinated by the regional transport team. Information was retrospectively reviewed from 01/11/16 to 31/12/16, just after starting collection on magnesium sulphate use. Comparison was made from 01/03/17 to 30/04/17.

**G118(P)** ASSOCIATIONS BETWEEN POSTNATAL GROWTH RATES AND COGNITIVE OUTCOMES AT AGE 16 YEARS IN INFANTS BORN SMALL-FOR-GESTATIONAL-AGE AT TERM

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**Background** Rapid post-natal growth is associated with increased risk of adult cardiovascular and metabolic disease. In preterm infants, rapid post-natal growth is also associated with improved long-term cognition. Small-for-gestational-age (SGA) term infants have increased risk of adverse long-term cognitive outcomes compared to appropriate-for-gestational-age (AGA) term infants; they are also prone to rapid post-natal ‘catch-up’ growth. It is therefore important to understand whether rapid post-natal growth in this population confers any long-term cognitive advantage, and balance this with recognised metabolic risks.

**Aims** To investigate associations between post-natal growth in term-AGA infants and cognitive outcomes in adolescence.

**Methods** 60 term-AGA infants were followed-up from birth to 16 years. Weight, head circumference (HC) and length were measured at enrolment, 6, 12 and 26 weeks, 9 and 18 months and 16 years. Measurements were converted to standard deviation scores (SDS) and changes in SDS between time points calculated. Cognitive outcomes were measured at 16 years to assess global intelligence (IQ); literacy and academic attainment (Wechsler Individual Attainment Test-reading and maths subtests); and executive functioning (Stroop Colour-Word test). Univariate and multivariate analyses explored associations between growth and cognitive outcomes.

**Results** In univariate analysis HC growth from 0–6 weeks was significantly associated with increased Full Scale and Verbal IQ (FSIQ and VIQ). A 1-SDS increase in HC growth over this period was associated with a 7.10-point increase in FSIQ (95% CI: 1.15 to 13.04, p=0.02) and a 10.82-point increase in VIQ (95% CI: 3.31 to 18.34), p=0.006. However, after adjustment for confounders in multivariate models, HC growth no longer significantly predicted cognitive outcome, whilst maternal education was a significant predictor of IQ, reading and maths scores.

**Conclusions** A positive association between HC growth from birth to 6 weeks and later IQ was seen. However, in the present paper this was not significant after adjustment for confounding factors, possibly due to under-powering. Maternal education was a significant predictor of cognitive outcomes at 16 years. Given the recognised risks associated with rapid post-natal growth, this study does not support promoting rapid growth in term-AGA infants.