Use of postnatal steroids in ventilator videolaryngoscopy as an intubation training. Incidence and clinical impact of respiratory disease in premature infants with low birth weight.

33.75, 51.25 h). Prior to the haemorrhage all had significantly improved pulmonary function (ventilation pressures and oxygenation); three extubated. 6 had evidence of PDA, 3 had widened pulse pressure, 3 had systolic murmurs or echocardiographic evidence of PDA. After the haemorrhage all babies deteriorated with X-ray changes. One baby died. All 9 survivors developed clinically significant PDA requiring treatment. (1 duct ligation, 8 managed medically).

Conclusions All affected babies had a combination of risk factors for pulmonary haemorrhage. In addition they all exhibited a rapid improvement in ventilatory requirements lending weight to the theory that falling pulmonary vascular resistance with increased pulmonary blood flow is a causative factor.

PO-0751 USE OF POSTNATAL STEROIDS IN VENTILATOR DEPENDENT PRETERM INFANTS

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Background and aim Bronchopulmonary Dysplasia (BPD), results in prolonged hospitalisation, poor growth and adverse neurodevelopment outcome. Postnatal steroids may decrease prolonged ventilation, one of the risk factors for BPD. However, there are concerns about adverse effects of steroids.

Methods The study was a retrospective analysis over 17 months (Jan 2012–May 2013) in preterm infants less than 32 weeks gestation. Demographic data along with data on adverse effects related to hydrocortisone was collected.

Results Fifteen percent (42/281) of preterm infants received hydrocortisone starting at dose of 5 mg/kg/d to aid extubation. The mean gestation was 25.17 weeks with a mean birth weight of 696 g. Forty-six percent had more than one failed extubation, 90% oxygen pre-treatment and 70% had either need of venous line or airway abnormalities and intubations carried out by more experienced doctors were excluded. Intubations were randomised to the videolaryngoscope screen being visible or covered (control). A sample size of 206 had an 80% power to demonstrate an absolute difference of 20% in the success rate between intervention and control groups. Primary outcome was first attempt intubation success rate confirmed by colorimetric detection of expired carbon dioxide.

Results 190 intubations have been randomised since March 2013 (80% of all eligible intubations since trial commencement). Median weight at intubation of recruited infants was 1195 g (range 504–4804 g), median corrected gestation 29 weeks post menstrual age (range 24–41). Recruitment will be complete by May 2014 and data analysis by July 2014.

Conclusions To follow up completion of the trial.

PO-0753 VIDEOLARYNGOSCOPY AS AN INTUBATION TRAINING TOOL FOR NEONATAL TRAINEES – A RANDOMISED CONTROLLED TRIAL

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Conclusions To follow up completion of the trial.