provide assessment, operative intervention and postoperative care to a paediatric cohort.

**Results** Twelve operations were undertaken for ten patients (table 1) with a median age of 3.4 years (IQR [2.3–5.8]) and weight 11.9 kg (IQR [9.1–14.5]). For those requiring cardio-pulmonary bypass (CPB), median time was 107 min (IQR [92–150]) and cross-clamp (XC) time 73 min (IQR [49.2–98.5]).

Fast-track extubation was performed in 70% with no reintubations. Post-operative morbidity was low and only patient 2 returned to theatre for additional procedures: delayed sternal closure and subsequent re-exploration. Case 3 was complicated by Junctional Ectopic Tachycardia, which resolved with medical management.

The team performed the institution’s first redo surgery and neonatal operation. The local cardiac surgeon led his first paediatric VSD closure and Tetralogy of Fallot repair. All patients were extubated and discharged, or eligible for ICU discharge prior to conclusion of the mission.

Visiting PICU staff were resident 24 hours a day. The local ICU team were supported by twice daily PICU rounds, multi-disciplinary meetings and bedside teaching for nurses and trainees. The visiting Cardiologist undertook outpatient consultations, intra-and post-operative echocardiography and ECHO teaching. A morning lecture series delivered education to local trainees on topics including cardiac output, inotropes, heart failure and the surgical management of congenital heart disease.

**Conclusions** Healing Little Hearts provides cardiac surgical and critical care in developing countries. Short, well-planned missions can deliver quality care to a high turnover of patients with safe, early extubation and minimal morbidity, despite limited resources. Future missions will provide ongoing training and support the development of a safe, independent program capable of handling carefully selected paediatric congenital cardiac surgeries.

**Aims** Only a small proportion of late-preterm (LPT) infants (34–36+6 weeks gestational age) require admission to NICU for respiratory support at birth. We aimed to evaluate the subsequent impact of Respiratory Syncitial Virus (RSV) on LPT infants compared to FT infants.

**Methods** A retrospective cohort study of infants admitted to a regional tertiary PICU with a primary diagnosis of RSV-positive bronchiolitis over a five-year period was undertaken. LPT infants were compared to FT infants (37 weeks and greater gestational age). The relative risk of PICU admission for RSV-positive bronchiolitis for LPT and FT infants in our regional population was calculated using Office of National Statistics data. Ventilation rates between the 2 groups admitted to PICU were compared using Chi-squared. Non-parametric statistical analysis was undertaken to identify any significant differences in other resource utilisation between the LPT and FT infants.

**Results** 40 LPT and 102 FT infants were admitted to PICU with a diagnosis of RSV-positive bronchiolitis from 2012 to 2017. Of infants born between 34 and 42 weeks in this period, 4.4% were LPT. However, LPT infants constituted 28.2% of the study population admitted to PICU with RSV-positive bronchiolitis (RR=8.44, 95% CI 5.85–12.15, p<0.0001). Invasive ventilation rates were similar between LPT and FT infants (75% LPT vs. 68.6% FT, \( \chi^2 = 0.08 \), DF1, \( p=0.78 \)). The median length of invasive ventilation was 6 days (IQR 5–11) among LPT infants and 5 days (IQR 4–7) for FT infants (\( W=1322; p=0.039 \)). The median length of PICU stay was 7 days (IQR 5–12) for LPT infants and 6 days (IQR 4–8) among FT infants (\( W=2574; p=0.015 \)). There were no PICU deaths among the 142 RSV-positive bronchiolitis admissions.

**Conclusion** Despite few LPT infants requiring respiratory input from a neonatologist at birth, following discharge home, they are at significantly increased risk of admission to PICU with RSV-positive bronchiolitis, compared to FT infants, with longer periods of invasive ventilation and lengthier admissions. This may reflect the importance of reaching full term for lung development and the control of breathing, especially when exposed to common respiratory viruses during infancy.
G34(P) ABSTRACT WITHDRAWN

G35(P) ROLE OF LUMBAR PUNCTURE IN INFANTS PRESENTING WITH RECURRENT APNOEAE

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Background The commonest cause of recurrent apnoea in early infancy is due to bronchiolitis especially when they present with other respiratory symptoms. Lumbar puncture is commonly performed in these babies to rule out the possibility of meningitis. Almost all these babies are also commenced on antibiotics and antiviral agents to cover meningitis until it is excluded.

Aim To identify the incidence of meningitis in infants presenting with recurrent apnoea to a tertiary paediatric intensive care unit.

Methods Prospective collection of data and retrospective review of case notes of all the infants intubated and ventilated because of recurrent apnoea. The study period was for three and a half years from October 2014 to February 2017.

Results Sixty five infants were included in the study. Their mean age was 5 weeks (range: 3 weeks to 3 months). All of them had a non-bronchoscopic Broncho Alveolar Lavage (BAL) to identify respiratory pathogens and also had lumbar puncture to rule out meningitis. All the infants presented with a history of coryzal symptoms, poor feeding, respiratory distress and recurrent apnoea. The average highest peak CRP for this group was 73 (interquartile range: 26–103). 39 babies (60%) received fluid resuscitation at presentation.

PCR test was positive in the BAL for a viral pathogen in sixty infants (92%) and negative in five (8%). Two babies in the BAL positive group also had a positive PCR test for a virus in the CSF. One baby had enterovirus positive in both BAL and CSF and another baby was PCR positive for Rhinovirus in BAL and HHV6 in CSF. The CSF cell count was normal in both these infants. No infant had evidence of bacterial meningitis or a treatable cause of viral meningitis.

Conclusion RaDaR provides important epidemiology data based on the whole country population which is shared amongst the renal team to develop further research into rare kidney diseases and improve the quality of care for these patients. It also gives an opportunity to define the best treatment practices across the country in the future.

G36(P) OUTCOMES OF INFANTS TRANSFERRED FROM THE NEONATAL INTENSIVE CARE TO THE PAEDIATRIC WARD AND PAEDIATRIC INTENSIVE CARE AFTER 44 WEEKS CORRECTED GESTATIONAL AGE

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Aim NHS England has outlined the Neonatal Intensive Care Unit (NICU) service to be for infants who are generally (but not exclusively)<44 weeks corrected gestational age (CGA).

Methods Eligible infants transferred from NICU between 1/09/2010 – 31/08/2015 were identified from the Standardised Electronic Neonatal Database (SEND) and PICU databases. Information was extracted from the SEND discharge summaries and medical records regarding transition of care.

Results 26 infants were identified. A mean of 4 (1–6) infants were transitioned annually to PICU or the paediatric wards. Median birth gestation was 36+2 23+6–41+3) weeks, weight of 2400 (515–4480) grams. Median transition age was 46+1 (44+0–52+6) weeks, weight of 3417 (1890–6170) grams. 11 of the 26 infants identified were transferred from NICU to PICU. Median length of stay (LOS) on PICU was 28 (1–241) days, mean 47 days. PICU occupancy per annum was 517 days, 13% of the annual bed occupancy (517 days). 22 infants were transferred to the general paediatric wards, including some of whom were initially on PICU. Median LOS on the general paediatric ward was 11 (1–145) days, total of 591 days annually. No child died before discharge from hospital.

Conclusion This small group of complex infants constitute a high workload for both PICU and the general paediatric wards. The majority of infants remaining in hospital post 44 weeks CGA had undergone surgery during the neonatal period. The knowledge obtained from this study will help in planning the timely transition of these infants to paediatric services. This may help prevent local capacity issues to paediatric services by neonates awaiting repatriation around the region and familial separation.