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 cardiopulmonary bypass (CPB), median time was 107 min (IQR [92–150]) and cross-clamp (XC) time 73 min (IQR [49.2–98.5]).

Abstract G31(P) Table 1

No.	Age (Years)	Procedure	CPB (Mins)	XC (Mins)	Extubation Time (Hours)
1	2	VSD Closure	60	34	2
2	4.25	REV Procedure (PA-VSD)	320	226	58.08
3	6.91	AVSD Repair	92	72	2.08
4	0.02	TAPVD Repair	95	50	18.33
5	6.33	TOF Repair	150	100	0.75
6	3.08	TOF Repair	154	98	15.58
7	2	Partial PDA Occlusion	0	0	3.75
8	18.67	Redo PV Implantation	111	0	4.5
9	3	VSD Closure, PA de-banding and reconstruction	107	75	1
10	3.75	VSD and PFO Closure	71	47	1.25

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.

G32(P) LATE PRETERM INFANTS AT GREATER RISK OF PAEDIATRIC INTENSIVE CARE ADMISSION AND LONGER INVASIVE VENTILATION DUE TO RESPIRATORY SYNCYTIAL VIRUS BRONCHIOLITIS

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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 Syncytial 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.

G33(P) OVERVIEW OF RARE RENAL DISEASES AT A PAEDIATRIC RENAL CENTRE THROUGH THE NATIONAL REGISTRY OF RARE KIDNEY DISEASES (RADAR) IN THE UNITED KINGDOM

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Aims Rare kidney diseases need better understanding and the starting point is collection of clinical data. Therefore our centre is participating in RaDaR which is a UK Renal Association initiative designed to gather information. RaDaR recruitment began in 2010 and now covers more than 40 conditions. There are around 10 000 recruits from 78 renal adult and paediatric units in the UK. Our Paediatric Renal Centre is the leading recruiting hospital in the UK.

To describe the range of range of conditions and patient numbers recruited to RADAR at BCH which is a national tertiary renal referral hospital in the UK.

Methods The RaDaR dataset is defined by the UK Renal Registry in association with the Rare Disease Groups, made