**Table S1:** Features necessitating complete repair during same admission in patients following PAB.

|  |  |  |
| --- | --- | --- |
| Syndrome/ Genetics | Intracardiac anatomy | Indication  |
| Normal | Multiple VSD’s | Respiratory support dependent |
| Piere Robin | VSD | Respiratory support dependent |
| T21 | AVSD | Respiratory support dependent |
| T21 | AVSD | Progressive AVVR (respiratory support) |
| Normal | AVSD | Progressive AVVR (respiratory support) |
| DiGeorge | VSD | Respiratory support dependent |
| T21 | VSD | Right pulmonary artery origin stenosis (respiratory support) |
| T21 | AVSD | Persistent heart failure |
| T21 | AVSD | Progressive AVVR |
| Normal  | Multiple VSD’s | Respiratory support dependent |
| T21 | AVSD | Respiratory support dependent |
| Normal | AVSD | Staphylococcus aureus mycotic aneurysm in the pulmonary artery (respiratory support) |
| Dandy Walker | Multiple VSD’s | Prolonged inpatient total parenteral nutrition |
| Normal | Multiple VSD’s | Subaortic stenosis (respiratory support) |

AVSD: Atrioventricular septal defect, AVVR: Atrioventricular valve regurgitation, T21: trisomy 21, VSD: Ventricular septal defect

**Table S2:** Non cardiac and cardiac causes of mortality pre and post-surgical repair

|  |
| --- |
| **Pre-surgical repair** |
| Non cardiac |
| * Respiratory failure due to trachea-bronchomalacia (Three patients)
 |
| * Cerebellopontine hypoplasia, episodes of apnea (Sudden death at home)
 |
| * Thoracic dystrophy (Ellis Van Creveld syndrome), respiratory failure
 |
| * Unexplained significant PHTN probably due to Chromosome abnormality (1p36 deletion)
 |
| * Trachea-bronchomalacia (Cri du Chat Syndrome)
* Short gut syndrome following Small Bowel infarction (PN dependent)
 |
| * Small hypoplastic left main bronchus, collapsed bronchus (Williams Syndrome)
* Cardiac arrest secondary to hyperkalemia (AKI)
 |
| * Chronic lung disease, Cardiorespiratory failure
 |
| Cardiac  |
| * Complete AVSD, heart failure
 |
| * Heart failure, systemic inflammatory response syndrome
 |
|  |
| **Post-surgical repair** |
| Non cardiac |
| * Pneumonia, Laryngo-tracheomalacia, right main bronchus narrowing, respiratory failure
 |
| * Pulmonary Hypertension secondary to progressive pulmonary vein stenosis
 |
| * Intestinal infarction, multiple organ failure
 |
| * Multiple organ failure, Immunodeficiency
* Idiopathic parenchymal lung disease, trachea-bronchomalacia
 |
| * Recurrent sepsis
 |
| Cardiac |
| * Severe left AVVR, heart failure
 |

AKI: Acute kidney Injury, AVSD: Atrioventricular septal defect, AVVR: Atrioventricular valve regurgitation, PHTN: Pulmonary hypertension