**Supplemental Table 3. Procedures Classified as Expected Cyanotic Postoperatively**

| **Primary Procedure** | **Frequency (n)** | **Percent (%)** |
| --- | --- | --- |
| ASD creation/enlargement | 24 | 0.49 |
| Atrial septal fenestration | 5 | 0.02 |
| Valve closure, Tricuspid (exclusion, univentricular approach) | 6 | 0.02 |
| Norwood procedure | 1022 | 3.72 |
| Fontan, Atrio-pulmonary connection | 1 | 0 |
| Fontan, TCPC, Lateral tunnel, Fenestrated | 228 | 0.83 |
| Fontan, TCPC, External conduit, Fenestrated | 865 | 3.15 |
| Fontan, Other | 24 | 0.09 |
| Shunt, Systemic to pulmonary, Modified Blalock-Taussig Shunt (MBTS) | 307 | 1.12 |
| Shunt, Systemic to pulmonary, Central (shunt from aorta) | 190 | 0.69 |
| Shunt, Systemic to pulmonary, Other | 3 | 0.01 |
| PA banding (PAB) | 253 | 0.92 |
| Damus-Kaye-Stansel procedure (DKS) (creation of AP anastomosis without arch reconstruction) | 134 | 0.49 |
| Bidirectional cavopulmonary anastomosis (BDCPA) (bidirectional Glenn) | 876 | 3.19 |
| Glenn (unidirectional cavopulmonary anastomosis) (unidirectional Glenn) | 9 | 0.03 |
| Bilateral bidirectional cavopulmonary anastomosis (BBDCPA) (bilateral bidirectional Glenn) | 116 | 0.42 |
| HemiFontan | 91 | 0.33 |
| Shunt, Reoperation | 2 | 0.01 |
| Superior Cavopulmonary anastomosis(es) + PA reconstruction | 511 | 1.86 |
| Hybrid approach Stage 2, Aortopulmonary amalgamation + Superior Cavopulmonary anastomosis(es) + PA Debanding + Aortic arch repair (Norwood [Stage 1] + Superior Cavopulmonary anastomosis(es) + PA Debanding) | 80 | 0.29 |
| Hybrid Approach Stage 1, Application of RPA & LPA bands | 16 | 0.06 |
| TAPVC repair + Shunt - systemic-to-pulmonary | 29 | 0.11 |
| Valvuloplasty converted to valve replacement in the same operation, Common atrioventricular valve | 1 | 0 |
| Superior cavopulmonary anastomosis(es) (Glenn or HemiFontan) + Atrioventricular valvuloplasty | 47 | 0.17 |
| Fontan, TCPC, Intra/extracardiac conduit, Fenestrated | 48 | 0.17 |
| Shunt, Systemic to pulmonary, Central (shunt from aorta), Central shunt with an end-to-side connection between the transected main pulmonary artery and the side of the ascending aorta (i.e. Mee shunt) | 7 | 0.03 |
| Fontan, TCPC, External conduit, hepatic veins to pulmonary artery, Fenestrated | 6 | 0.02 |
| Fontan, TCPC, External conduit, hepatic veins to pulmonary artery, Nonfenestrated | 8 | 0.03 |
| **Total** | **4909** | **100** |