

Supplementary Table 1. Combined Abnormalities of Critical Congenital Heart Defects in the Study Population

| No | CHD | Other congenial malformation | Chromosomal abnormality | Prenatal suspicion | Birth outcome |
|----|-------------------------------|------------------------------|---|-------------------------|-------------------|
| 1 | HLHS | Cystic hygroma | Trisomy 21 | HLHS | Termination (18w) |
| 2 | HLHS | DIV | Normal | HLHS, CoA, DIV | Live birth |
| 3 | HLHS | Not identified | Normal | HLHS | Stillbirth (21w) |
| 4 | AVSD | CDH | Trisomy 18 | AVSD | Termination (23w) |
| 5 | AVSD | CDH | 46,XY,r(15)(p11.2q26.1)[44] /45,XY,-15[5]/46,XY[1] | AVSD, Aortic stenosis | Termination (17w) |
| 6 | AVSD | No | Trisomy 21 | AVSD | Live birth |
| 7 | AVSD | Not identified | Not identified | AVSD | F/u loss |
| 8 | DORV | Mesenteric cyst | Not identified | DORV | F/u loss |
| 9 | DORV | Not identified | Trisomy 21 | DORV or TOF | F/u loss |
| 10 | DORV | ASD, VSD | Normal | DORV | Live birth |
| 11 | DORV | Not identified | Normal | DORV, | F/u loss |
| 12 | TGA | ASD | Normal | TGA, VSD | Live birth |
| 13 | TGA | Not identified | Not available | TGA, VSD | F/u loss |
| 14 | TOF | No | Normal | TOF | Live birth |
| 15 | TOF | No | Normal | TOF | Live birth |
| 16 | TOF | No | Normal | Normal | Live birth |
| 17 | TOF | Not identified | Normal | TOF | f/u loss |
| 18 | TOF | CDH | Normal | TOF | Live birth |
| 19 | PAVSD | Thymic aplasia | Normal | PAVSD | F/u loss |
| 20 | PAIVS | No | Normal | PAIVS | Live birth |
| 21 | Ebstein anomaly | Not identified | Trisomy 18 | Ebstein anomaly | Stillbirth (23w) |
| 22 | Interrupted aortic arch | Not identified | Normal | Interrupted Aortic arch | Live birth |
| 23 | Aortopulmonary septal defects | Choledochal cyst | Angelman syndrome | VSD | Live birth |
| 24 | Situs inversus | Not identified | Normal | Situs inversus, | F/u loss |
| 25 | Situs inversus | Not identified | Normal | Situs inversus | Live birth |
| 26 | TAPVR | ASD | Normal | Portocaval shunt | Live birth |
| 27 | PS | ASD | Normal | Normal | Live birth |
| 28 | PS | VSD, club foot | Normal | PAVSD | Live birth |
| 29 | PS | ASD | Normal | Normal | Live birth |
| 30 | PS | No | Normal | Normal | Live birth |
| 31 | MS | TS | Normal | Normal | Live birth |
| 32 | Rhabdomyoma | No | Normal | Rhabdomyoma | Live birth |
| 33 | Ectopia cordis | Omphalocele | Normal | Ectopia cordis | Abortion (15w) |
| 34 | Cardiomegaly | ACC | Normal | Cardiomegaly | Stillbirth (21w) |
| 35 | Cardiomegaly | Facial cleft | 46,XY,der(4)t(2;4)(p22;p15.3) | Cardiomegaly | Abortion (16w) |

CHD, congenital heart disease; HLHS, hypoplastic left heart syndrome; w, weeks; DIV, double inlet ventricle; CoA, coarctation of aorta; AVSD, atrioventricular septal defect; CDH, congenital diaphragmatic hernia; DORV, double outlet right ventricle; TOF, tetralogy of Fallot; ASD, atrial septal defect; VSD, ventricular septal defect; TGA, transposition of the great arteries; NIPT, non-invasive prenatal test; PAVSD, pulmonary atresia with ventricular septal defect; PAIVS, pulmonary atresia with intact ventricular septum; TAPVR, total anomalous pulmonary venous return; PS, pulmonary stenosis; MS, mitral stenosis; TS, tricuspid stenosis; ACC, agenesis of corpus callosum.