

**Supplemental Table 1: Participants' clinical conditions and medications**

<b>Age (years)<sup>a</sup></b>	<b>Gender</b>	<b>Primary Cardiac diagnoses</b>	<b>Other medical conditions</b>	<b>Regular medications</b>
0.01	Male	Transposition of great arteries	none	none
0.01	Male	Truncus arteriosus, pulmonary atresia	none	prostaglandin
0.01	Female	Hypoplastic left heart syndrome	none	prostaglandin E2 dobutamine
0.02	Male	Hypoplastic left heart syndrome	none	Dobutamine
0.03	Female	Hypoplastic aortic arch	none	Prostaglandin, frusemide, digoxin
0.03	Female	Transposition of great arteries	none	Frusemide, spironolactone, prostaglandin
0.03	Male	Transposition of great arteries	none	Prostaglandin
0.05	Male	Transposition of great arteries, ventricular septal defect, atrial septal defect	Prematurity	Frusemide, spironolactone
0.07	Male	Truncus arteriosus	Chromosome 8 anomaly	Frusemide, propranolol
0.08	Male	Hypoplastic left heart syndrome	none	none
0.11	Male	Truncus arteriosus, Tetralogy of Fallot	none	none
0.12	Male	Ventricular septal defect	none	Frusemide, spironolactone
0.15	Male	Ventricular septal defect, aorto-pulmonary valve dysplasia	Tracheo-oesophageal fistula	Frusemide, captopril, ranitidine, domperidone

0.25	Male	Total anomalous pulmonary venous connections	none	Frusemide, propranolol
0.27	Female	Corrected transposition of great arteries	Atrio-ventricular block	Frusemide, spironolactone
0.31	Male	Tetralogy of Fallot	Prematurity	Propranolol
0.34	Male	Tetralogy of Fallot	none	none
0.41	Male	Tetralogy of Fallot	none	Propranolol
0.41	Male	Ventricular septal defect	none	none
0.46	Male	Ventricular septal defect, right ventricular outflow tract obstruction	none	Frusemide, spironolactone
0.46	Male	Tetralogy of Fallot	none	Frusemide, spironolactone
0.47	Female	Ventricular septal defect Atrial septal defect	none	Frusemide, spironolactone
0.47	Male	Atrioventricular septal defect	Trisomy 21	Frusemide, digoxin, captopril, domperidone
0.48	Male	Tetralogy of Fallot	none	Propranolol
0.50	Female	Atrial septal defect	none	none
0.58	Female	Tetralogy of Fallot Left pulmonary artery stenosis	none	none
0.59		Pulmonary atresia , Ventricular septal defect Major aorto-pulmonary collateral arteries	22q deletion	none
0.64	Female	Ventricular septal defect	none	Frusemide, captopril
0.67	Female	Ventricular septal defect	none	Frusemide, captopril

0.68	Male	Ventricular septal defect	Trisomy 21	Frusemide, spironolactone
0.71	Female	Tetralogy of Fallot	none	Propranolol
0.73	Male	Ventricular septal defect, persistent foramen ovale	Trisomy 21	Movicol®
0.80	Female	Ventricular septal defect	22q deletion	Frusemide, captopril
0.82	Male	Ventricular septal defect	none	Frusemide, captopril
0.87	Male	Tetralogy of Fallot	none	Aspirin
0.90	Female	Ventricular septal defect	none	Frusemide, captopril
0.93	Male	Pulmonary value stenosis	Noonan's syndrome	none
0.96	Female	Right pulmonary artery stenosis	none	none
0.99	Male	Ventricular septal defect, right ventricular outflow tract obstruction	none	Frusemide, propranolol
2.18	Male	Atrial septal defect	Prematurity	Frusemide, spironolactone, salbutamol, betamethasone
3.40	Female	Atrial septal defect	none	none
3.61	Female	Atrial septal defect	none	none
4.47	Male	Ventricular septal defect	none	Enalapril
6.69	Male	Hypertrophic cardiomyopathy	none	Propranolol
7.15	Female	Severe right ventricular outflow tract obstruction	none	none
17.05	Male	Partial anomalous pulmonary venous drainage, atrial septal defect	none	none

<sup>a</sup>Tissue samples were obtained when cardiac surgery was performed for clinical indications in clinically determined random order. Information is presented in age order to maintain anonymisation