

APPENDIX TABLE 1: Predictors of Fontan failure on multivariable Cox Regression.

	HR	95% CI lower	95% CI upper	p value
Catchment area 1 (vs. area 2)	1.4	1.0	1.9	0.035
Age 0-3 years (vs. age 3-5)	0.8	0.5	1.4	0.51
Age 5-7 years (vs. age 3-5)	1.2	0.8	1.8	0.33
Age > 7 years (vs. age 3-5)	1.8	1.3	2.7	0.001
RV dominance	1.5	1.1	2.1	0.023
HLHS	1.8	1.0	3.2	0.04
LT Fontan (vs. AP)	0.4	0.2	0.8	0.003
ECC Fontan (vs. AP)	0.4	0.2	0.9	0.03
Male	1.3	1.0	1.7	0.10
1990-1999 (vs. pre-1990)	1.0	0.6	1.4	0.88
2000-2009 (vs. pre-1990)	1.0	0.6	1.8	0.98
2010-2015 (vs. pre-1990)	1.4	0.6	3.4	0.40
Number of prior palliations (per surgery)	1.0	0.8	1.2	0.96
Prior BCPC	0.9	0.5	1.3	0.48

AP: atripulmonary; BCPC: bi-directional cavo-pulmonary shunt; ECC: extra-cardiac conduit; HLHS: hypoplastic left heart syndrome; LT: lateral tunnel; RV: right ventricle

APPENDIX Table 2: Predictors of Fontan failure (after excluding Fontan conversion, takedown and heart transplantation) on multivariable Cox Regression.

	HR	95% CI lower	95% CI upper	p value
Catchment area 1 (vs. area 2)	1.1	0.8	1.6	0.53
Age 0-3 years (vs. age 3-5)	0.9	0.5	1.5	0.60
Age 5-7 years (vs. age 3-5)	1.5	0.9	2.3	0.11
Age > 7 years (vs. age 3-5)	2.2	1.4	3.3	<0.001
RV dominance	1.7	1.2	2.5	0.004
LT Fontan (vs. AP)	0.4	0.2	0.8	0.007
ECC Fontan (vs. AP)	0.4	0.1	0.9	0.04
Male	1.3	0.9	1.8	0.12
1990-1999 (vs. pre-1990)	1.2	0.7	1.8	0.55
2000-2009 (vs. pre-1990)	1.2	0.6	2.3	0.57
2010 - 2015 (vs. pre-1990)	2.4	0.9	5.9	0.06
HLHS	1.8	1.0	3.3	0.06
Number of prior palliations (per surgery)	0.9	0.8	1.1	0.50
Prior BCPC	1.0	0.6	1.6	0.85

AP: atriopulmonary; BCPC: bi-directional cavo-pulmonary shunt; ECC: extra-cardiac conduit; HLHS: hypoplastic left heart syndrome; LT: lateral tunnel; RV: right ventricle

APPENDIX TABLE 3: Predictors of heart transplantation after the Fontan procedure on multivariable Cox Regression.

	HR	95% CI lower	95% CI upper	p value
Catchment area 1 (vs. area 2)	4.7	1.7	13.5	0.003
Age 0-3 (vs. age 3-5)	1.1	0.3	4.4	0.93
Age 5-7 (vs. age 3-5)	1.2	0.4	3.6	0.80
Age > 7 (vs. age 3-5)	3.9	1.6	9.5	0.003
Male	1.4	0.7	2.9	0.38
1990-1999 (vs. pre-1990)	0.4	0.1	2.5	0.37
2000-2009 (vs. pre-1990)	0.8	0.1	7.3	0.81
HLHS	2.5	0.7	9.0	0.16
Number of prior palliations (per surgery)	1.2	0.8	1.6	0.40
Prior BCPC	0.4	0.1	1.6	0.22
LT Fontan (vs. AP)	0.7	0.1	3.8	0.66
ECC Fontan (vs. AP)	1.7	0.2	16.8	0.66
RV dominance	1.6	0.7	3.8	0.25

AP: atriopulmonary; BCPC: bi-directional cavo-pulmonary shunt; ECC: extra-cardiac conduit; HLHS: hypoplastic left heart syndrome; LT: lateral tunnel; RV: right ventricle