

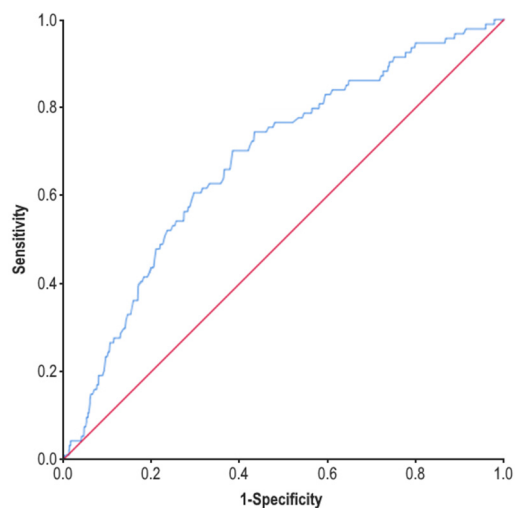
## **Supplement Material**

**Table S1: Clinical parameters associated with SAE in univariable and multivariable**

### **Cox-regression analysis.**

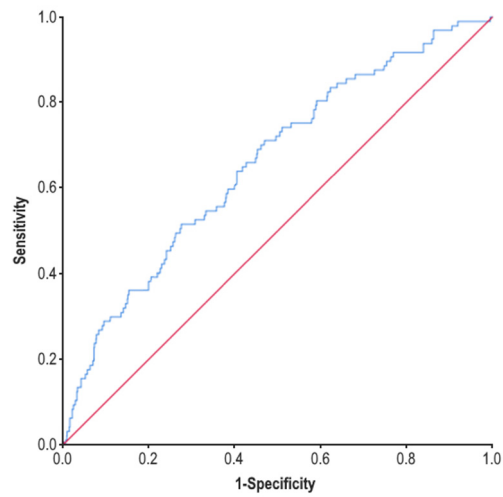
	Univariable analysis			Multivariable analysis		
Variable	HR	95% CI	P-value	HR	95% CI	P-value
Base data						
Age [per additional year]	1.042	1.027-1.056	<0.001	1.023	1.006-1.041	0.009
BMI [per 1kg/m <sup>2</sup> increase]	1.062	1.022-1.104	0.002			
Gender [female]	1.071	0.718-1.595	0.739			
CPET						
$\dot{V}O_{2peak}$ [per 1 ml/min/kg decrease]	1.078	1.078-1.105	<0.001	1.056	1.025-1.087	<0.001
$\dot{V}O_{2at}$ [per 1 ml/min/kg decrease]	1.101	1.056-1.148	<0.001			
$\dot{V}E/\dot{V}CO_{2-slope}$ [per 1 increase]	1.008	0.974-1.043	0.657			
RERmax [per 1 increase]	2.147	0.285-16.202	0.459			
SpO <sub>2</sub> max [per 1% decrease]	1.004	0.971-1.038	0.798			
CHD						
UVH	0.926	0.555-1.545	0.769			
EBS	0.642	0.370-1.114	0.115			
TOF	0.862	0.576-1.290	0.470			
TAC	4.608	0.643-33.051	0.129			
TGA ASO	1.642	0.796-3.385	0.179			
TGA SM	1.123	0.638-1.979	0.687			

SAE: Severe arrhythmic event, HR: Hazard-ratio, CI: Confidence-Interval, BMI: Body mass index, CPET: Cardiopulmonary exercise testing,  $\dot{V}O_{2peak}$ : Oxygen uptake at peak exercise,  $\dot{V}O_{2at}$ : Oxygen uptake at anaerobic threshold,  $\dot{V}E/\dot{V}CO_2$ -slope: Estimated ventilatory efficiency, RERmax: Respiratory exchange ratio at peak exercise,  $SpO_2max$ : Pulse oxymetric saturation at peak exercise, UVH: Univentricular heart, EBS: Ebsteins disease, TOF: Tetralogy of Fallot, TAC: Truncus arteriosus communis, TGA: Transposition of the great arteries, ASO: arterial switch operation, SM: Senning/Mustard. Individual CHD subgroups were compared to a composite of the remaining CHD. Variables with a p-value of less than 0.10 in univariable analysis were included to the multivariable model and underwent backwards stepwise regression,  $\dot{V}O_{2at}$  was excluded from multivariable analysis, due to correlation with  $\dot{V}O_{2peak}$ .



**Figure S1: ROC curve for prediction of SAE via  $\dot{V}O_{2peak}$  in CHD.**

ROC: receiver operating characteristic, SAE: Severe arrhythmic event,  $\dot{V}O_{2peak}$ : peak oxygen uptake, CHD: Congenital heart disease.



**Figure S2: ROC curve for prediction of SAE via age in CHD.**

ROC: receiver operating characteristic, SAE: Severe arrhythmic event, CHD: Congenital heart disease.