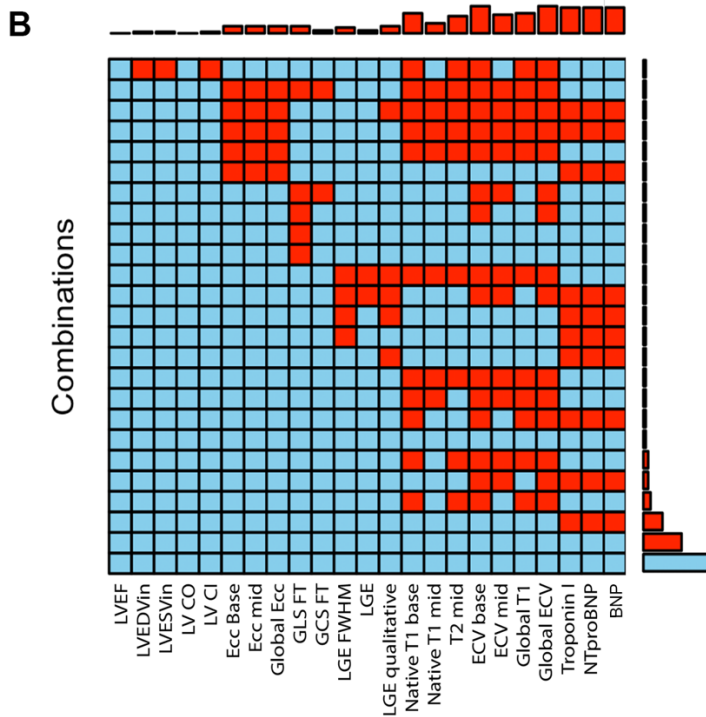
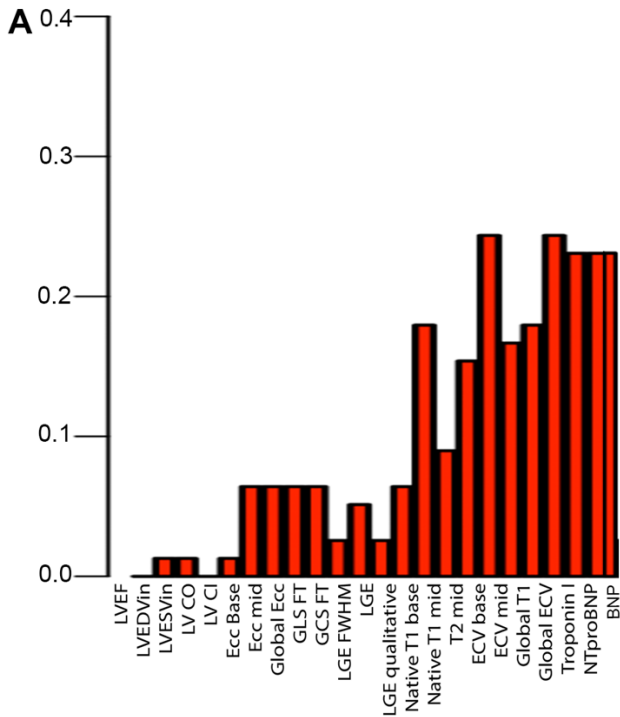


SUPPLEMENTAL MATERIAL

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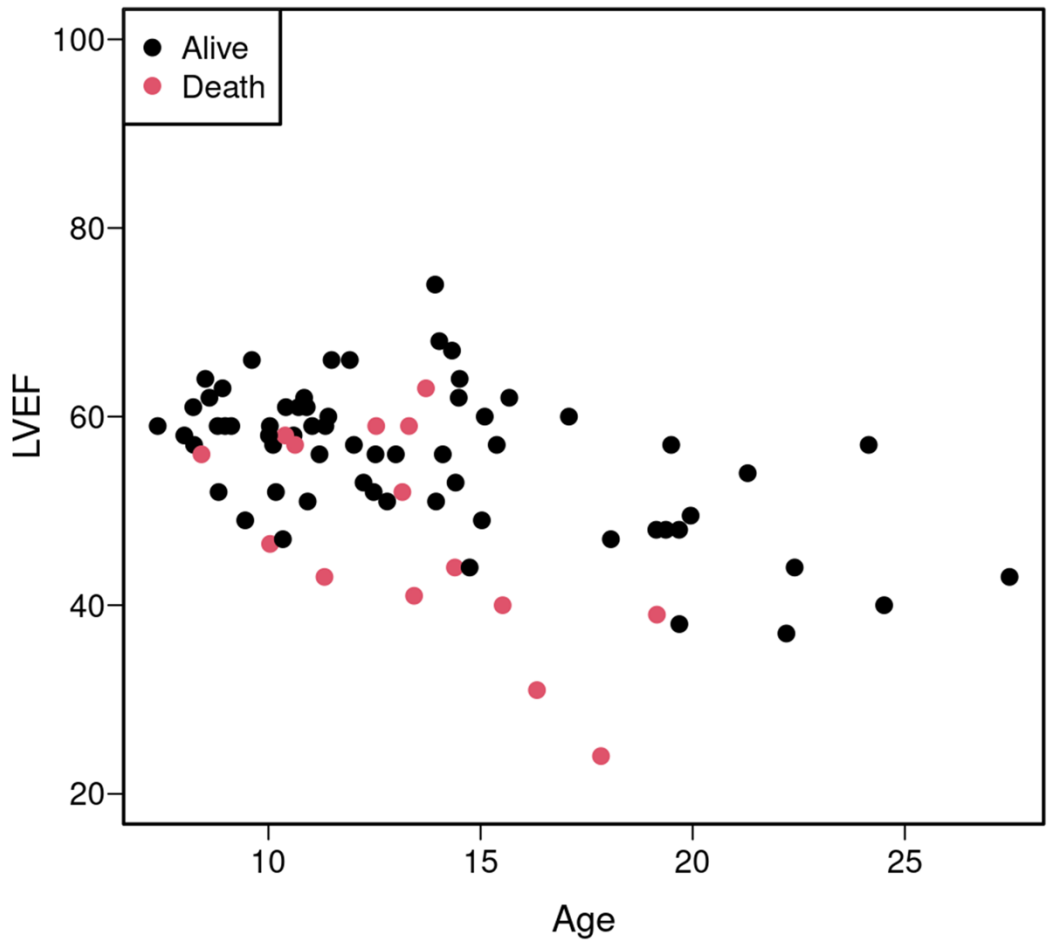
2 Supplemental Figures and Figure Legends

3 Figure S1. Proportion of missing values and missing values for first cardiac magnetic
 4 resonance study (A, B).



5

- 1 Figure S2. Scatterplot demonstrating age and left ventricular ejection fraction (LVEF) at
- 2 first cardiac magnetic resonance (CMR) study as well as outcome.



- 3
- 4

1 **Supplemental Tables**

2 Table S1: Pearson correlation between predictors of interest and skeletal muscle
 3 strength, as measured using total indexed quantitative muscle testing (QMT).

Measure	Correlation with total indexed QMT*	P-value
	95% CI	
Left ventricular (LV [†]) ejection fraction	0.13 -0.15-0.39	0.40
LV end diastolic volume indexed	-0.01 -0.28-0.26	0.90
LV end systolic volume indexed	-0.07 -0.34-0.20	0.60
Global Ecc [‡] per 1% increase	-0.19 -0.44-0.10	0.20
LGE [§] full width half maximum per 1% increase	0.05 -0.23-0.32	0.70

4 * QMT – quantitative muscle testing

5 † LV – left ventricle

6 ‡ Ecc – circumferential strain

7 § LGE – late gadolinium enhancement

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Table S2: Evaluation of association between confounders of interest and all-cause mortality

Measure	N	N_e*	P-value
Age at first cardiac magnetic resonance (CMR [†])	78	15	0.46
Ambulatory	78	15	0.95
Use of positive pressure ventilation	78	15	0.80
Use of corticosteroids	78	15	0.74
Use of cardiac therapy	77	14	0.74

2 * N_e – number of events

3 † CMR – cardiac magnetic resonance

Table S3: Multivariable model for all-cause mortality including age as a covariate

Measure	N	Hazard Ratio Confidence interval	P-value
Left ventricular (LV*) ejection fraction per 3% decrease	78	1.65 1.33-2.05	<0.001
Age per 1 year increase		0.26 0.10-0.67	0.006
LV end diastolic volume indexed per 1.5ml/m ² increase	78	1.07 1.03-1.11	<0.001
Age per 1 year increase		0.72 0.40-1.30	0.28
LV end systolic volume indexed per 3ml/m ² increase	78	1.37 1.12-1.35	<0.001
Age per 1 year increase		0.50 0.25-1.0	0.05
Circumferential strain (Ecc [†]) at base per 1.7% increase (less negative)	63	1.57 1.06-2.34	0.024
Age per 1 year increase		0.52 0.22-1.23	0.14
Ecc at mid-LV per 1.1% increase (less negative)	62	1.52 1.16-1.99	0.002
Age per 1 year increase		0.4 0.14-1.09	0.07
Global Ecc per 1.5% increase (less negative)	63	1.51 1.10-2.07	0.012

Age per 1 year increase		0.51	0.12
		0.21-1.19	
LGE [‡] full width half maximum per 12% increase	61	1.55	0.005
Age per 1 year increase		0.76	0.38
		0.41-1.40	
Native T1 mid per 20ms decrease	67	0.95	0.83
Age per 1 year increase		0.61-1.48	
		0.67	0.54
		0.19-2.4	
N-terminal pro b-type natriuretic peptide per 50 pg/ml increase	40	1.17	0.032
Age per 1 year increase		0.72	0.45
		0.31-1.69	

- 1 * LV – left ventricle
- 2 † Ecc – circumferential strain
- 3 ‡ LGE – late gadolinium enhancement
- 4

Table S4: Model for all-cause mortality based on most recent visit that included a cardiac MRI

Measure	N	Hazard Ratio	P-value
Left ventricular (LV*) ejection fraction per 5% increase	78	0.69 0.54-0.89	<0.004
LV end diastolic volume indexed per 4ml/m2 increase	78	1.12 1.05-1.19	<0.001
LV end systolic volume indexed per 2ml/m2 increase	78	1.07 1.03-1.10	<0.001
LV cardiac index per 1L/min/m2 increase	77	1.01 0.54-1.86	0.98
Circumferential strain (Ecc [†]) at base per 1% increase	63	1.2 1.04-1.38	0.011
Ecc at mid-LV per 1% increase	62	1.16 1.04-1.30	0.009
Global Ecc per 1% increase	63	1.17 1.04-1.31	0.001
Presence of late gadolinium enhancement (LGE [‡])	72	451 0-1.05x10 ²³	0.800
LGE global severity score per 1 unit increase	69	1.53 0.90-2.61	0.120
LGE full width half maximum per 1% increase	61	1.00 0.95-1.04	0.850

Native T1 mid per 1ms increase	67	1.00 0.99-1.01	0.580
T2 mid per 1ms increase	60	1.08 0.85-1.36	0.540
Extracellular volume mid-LV per 1% increase	58	1.07 0.96-1.20	0.200
Brain natriuretic peptide per 1pg/ml increase	41	1.01 0.99-1.01	0.160
N-terminal pro b-type natriuretic peptide per 50 pg/ml increase	40	1.18 1.00-1.39	0.03
Troponin I per 1pg/ml increase	40	1.00 0.99-1.00	0.450

1 * LV – left ventricle

2 † Ecc – circumferential strain

3 ‡ LGE – late gadolinium enhancement