

# **SUPPLEMENTAL MATERIAL**

**Table S1. Impact of Myocardial Injury on the Ventricular Response to Hyperoxia.**

	Normal T1 (<1220ms)	Abnormal T1 (≥1220ms)	p-value
<b>LV Function</b>			
Ejection Fraction (%)	2.3±3.4	-3.3±5.2	<b>0.017*</b>
End Diastolic Volume Index (ml/m <sup>2</sup> )	2±5	1±8	0.852
End Systolic Volume Index (ml/m <sup>2</sup> )	-1±2	2±5	0.092
Stroke Volume Index (ml/m <sup>2</sup> )	3±6	-1±6	0.132
Cardiac Index (L/min/m <sup>2</sup> )	0.00±0.41	-0.20±0.40	0.303
<b>FT-CMR</b>			
<b>Circumferential</b>			
Peak Strain (PSc, %)	-0.6±1.1	0.8±1.6	<b>0.025*</b>
Time to Peak Strain (TTPc, ms)	6±30	23±37	0.298
Systolic Strain Rate (sSRc, /s)	-0.03±0.09	0.05±0.11	0.093
Diastolic Strain Rate (e-dSRc, /s)	-0.03±0.19	-0.18±0.57	0.505
<b>Radial</b>			
Peak Strain (PSR, %)	2.0±3.9	-2.0±5.4	<b>0.047*</b>
Time to Peak Strain (TTPR, ms)	1±22	19±59	0.454
Systolic Strain Rate (sSRR, /s)	-0.05±0.35	-0.18±0.39	0.485
Diastolic Strain Rate (e-dSRR, /s)	-0.00±0.20	0.24±0.75	0.407
Displacement (DisPR, mm)	0.3±0.6	-0.2±0.6	0.120
Time to Displacement (TTDR, ms)	11±34	12±38	0.956
Systolic Velocity (sVelR, mm/s)	1.28±3.7	-1.53±3.72	0.123
Diastolic Velocity (e-VelR, mm/s)	3.41±8.25	0.95±6.11	0.482

The mean±SD delta responses of ventricular function and feature tracking (FT-CMR) measurements are displayed for CAD patients with normal (<1220 ms) or elevated (≥1220ms) T1. Patients with elevated T1 indicating myocardial injury experienced significant deterioration of ejection fraction and peak strain in response to hyperoxia.