



**Figure S1** Flow chart of patients, control cohort recruitment and exclusion. CMR, cardiac magnetic resonance; CAM, COVID-19 associated myocarditis; NCAM, non-COVID-19 associated myocarditis; COVID-19, coronavirus disease 2019.

**Table S1** Correlation of CMR parameters in short-term CAM patients

	LVESV	LVESVi	LVEF	RVESV	RVESVi	RVEF	GRS	GCS	GLS
LVESV (mL)	1								
LVESVi (mL/m <sup>2</sup> )	0.988**	1							
LVEF (%)	-0.957**	-0.958**	1						
RVESV (mL)	0.382	0.277	-0.307	1					
RVESVi (mL/m <sup>2</sup> )	0.470*	0.400*	-0.411*	0.953**	1				
RVEF (%)	-0.768**	-0.749**	0.814**	-0.617**	-0.698**	1			
GRS (%)	-0.745**	-0.719**	0.852**	-0.478*	-0.535**	0.839**	1		
GCS (%)	0.825**	0.799**	-0.860**	0.407*	0.443*	-0.811**	-0.798**	1	
GLS (%)	0.587**	0.576**	-0.698**	0.367	0.439*	-0.747**	-0.746**	0.651**	1

\*, P<0.01; \*\*, P<0.05. CMR, cardiac magnetic resonance; CAM, coronavirus disease 2019 (COVID-19)-associated myocarditis; LVESV, left ventricular end-systolic volume; RVESV, right ventricular end-systolic volume; LVESVi, left ventricular end-systolic volume index; RVESVi, right ventricular end-systolic volume index; LVEF, left ventricular ejection fraction; RVEF, right ventricular ejection fraction; GRS, global radial strain; GCS, global circumferential strain; GLS, global longitudinal strain.

**Table S2** The receiver operating characteristic curve of CMR parameters between control group and short-term CAM patients

Variables	AUC	P value	Criterion	Sensitivity (%)	Specificity (%)
LVEDV (mL)	0.603	0.291	99.00	83.33	44.00
LVEDVi (mL/m <sup>2</sup> )	0.660	0.102	69.08	75.00	64.00
LVESV (mL)	0.703	0.023	45.00	83.33	64.00
RVEDV (mL)	0.620	0.213	121.20	66.67	60.00
RVEDVi (mL/m <sup>2</sup> )	0.663	0.086	67.00	83.33	56.00
RVESV (mL)	0.760	<0.001	48.19	91.67	60.00
RVESVi (mL/m <sup>2</sup> )	0.820	<0.001	33.82	83.33	72.00
RVEF (%)	0.893	<0.001	51.90	83.33	100.00
GCS (%)	0.783	<0.001	-19.64	100.00	56.00
GLS (%)	0.910	<0.001	-13.66	91.67	92.00
ECV (%)	0.603	0.335	32.00	33.33	92.00
T2 (ms)	0.518	0.193	50.00	16.67	64.00

AUC, area under the curve; CAM, COVID-19 associated myocarditis; CMR, cardiac magnetic resonance; LVEDV, left ventricular end-diastolic volume; LVEDVi, left ventricular end-diastolic volume index; LVESV, left ventricular end-systolic volume; RVEDV, right ventricular end-diastolic volume; RVEDVi, right ventricular end-diastolic volume index; RVESV, right ventricular end-systolic volume; RVESVi, right ventricular end-systolic volume index; RVEF, right ventricular ejection fraction; GCS, global circumferential strain; GLS, global longitudinal strain; ECV, extracellular volume.