

Figure S1 Flowchart of participant inclusion. AMI, acute myocardial infarction; MRI, magnetic resonance imaging; aHGL, admission hyperglycemia; aNGL, admission normoglycemia; aBGL, admission blood glucose level; CMR, cardiac magnetic resonance.

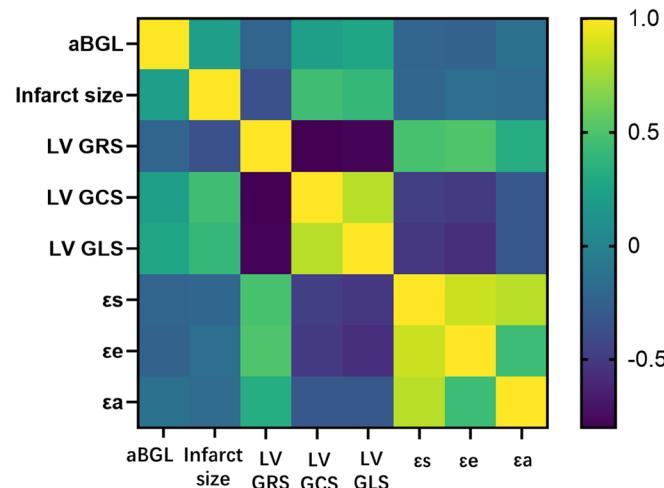


Figure S2 Correlations between infarct size, aBGL, LV, strains and LA strain. aBGL, admission blood glucose level; LV, left ventricular; GRS, global radial strain; GCS, global circumferential strain; GLS, global longitudinal strain; LA, left atrial.

Table S1 Univariate and multivariate linear regression of infarct size and LV strain in all patients with AMI

Variables	Infarct size				LV GRS				LV GCS				LV GLS			
	Univariate		Multivariate ($R^2=0.093$)		Univariate		Multivariate ($R^2=0.049$)		Univariate		Multivariate ($R^2=0.255$)		Univariate		Multivariate ($R^2=0.224$)	
	β	P	β	P	β	P	β	P	β	P	β	P	β	P	β	P
Age	-0.058	0.405			-0.029	0.673			0.096	0.168			0.120	0.085		
Sex	0.218	0.002	0.231	<0.001	-0.064	0.362			0.023	0.741			0.008	0.909		
HR	0.008	0.913			-0.221	0.001	-0.221	0.001	0.240	<0.001	0.216	<0.001	0.216	0.002	0.216	<0.001
SBP	-0.131	0.060			0.008	0.909			-0.119	0.087			-0.032	0.644		
DBP	-0.081	0.245			-0.119	0.088			0.009	0.894			0.025	0.717		
Diabetes	0.003	0.968			-0.159	0.022			0.206	0.003	0.179	0.003	0.179	0.010		
aBGL	0.151	0.029	0.168	0.013	-0.238	<0.001			0.216	0.002			0.257	<0.001	0.208	0.001
eGFR	-0.116	0.098	-0.146	0.032	0.014	0.842			-0.055	0.437			-0.051	0.471		
Infarct size	-	-	-	-	-0.347	<0.001			0.423	<0.001	0.420	<0.001	0.368	<0.001	0.335	<0.001

Multivariable linear regression model was adjusted with age, sex, and clinical factors with P<0.1 in the univariate analysis. LV, left ventricular; AMI, acute myocardial infarction; HR, heart rate; SBP, systolic blood pressure; DBP, diastolic blood pressure; aBGL, admission blood glucose level; eGFR, estimated glomerular filtration rate; GRS, global radial strain; GCS, global circumferential strain; GLS, global longitudinal strain.