Supplemental Material

Table S1. Clinical characteristics of NICM cohort by among included and excluded participants.

Characteristics	# of patients	Included (n = 166)	Excluded (n = 427)	P-value
Age, mean ± SD, years	582	54 ± 16	58 ± 15	0.01
Female, n (%)	582	87 (52)	152 (37)	<.01
Body mass index, mean ± SD, kg/m^2	518	29.5 ± 8.1	31.5 ± 9.6	0.02
Systolic Blood Pressure, mean ± SD, mmHg	502	137.2 ± 30.6	135.8 ± 30.2	0.62
Diastolic Blood Pressure, mean ± SD, mmHg	502	86.0 ± 20.0	83.7 ± 19.4	0.22
Heart Rate, median (IQR), beats/min	509	98 (85-113)	95 (82-111)	0.07
Race	581			0.40
Black, n (%)		93 (56)	211 (51)	
Other, n (%)		13 (8)	45 (11)	
White, n (%)		60 (36)	159 (38)	
Medications				
ACE/ARB, n (%)	583	102 (61)	221 (53)	0.06
Aspirin, n (%)	583	55 (33)	135 (32)	0.86
Beta blocker, n (%)	583	105 (63)	233 (56)	0.10
Loop Diuretic, n (%)	583	81 (49)	192 (46)	0.55
MRA, n (%)	583	32 (19)	63 (15)	0.22
Comorbidities				
Atrial Fibrillation, n (%)	543	63 (38)	147 (39)	0.82
CKD, n (%)	543	62 (37)	113 (30)	0.09
Hypertension, n (%)	543	137 (83)	329 (87)	0.14
Diabetes, n (%)	543	46 (28)	160 (42)	<.01
COPD, n (%)	543	53 (32)	105 (28)	0.34
Laboratory				
Hemoglobin, mean ± SD, g/dl	551	12.5 ± 2.4	12.9 ± 2.3	0.09
Sodium, mean ± SD, mEq/L	553	137.7 ± 3.2	137.6 ± 3.9	0.82
Creatinine, median (IQR), mg/dl	553	1.1 (0.9-1.4)	1.2 (0.9-1.6)	0.08
eGFR, median (IQR), mL/min/1.73 m2	551	68.7 (46.9-84.7)	63.8 (45.8-82.8)	0.27

Troponin, median (IQR), ng/mL	472	0.04 (0.02-0.09)	0.05 (0.03-0.11)	0.05
BNP, median (IQR), pg/mL	370	909 (395-1491)	868 (409-1635)	0.82
QRS duration, median (IQR), ms	564	92 (84-109)	98 (86-118)	0.01
Baseline Cardiac Structure, Function and Mechanics				
LVEF, mean ± SD, %	582	25.2 ± 7.8	23.9 ± 7.9	0.07
Longitudinal strain, mean ± SD	237	7.7 ± 3.1	7.6 ± 3.1	0.80
Circumferential strain, mean ± SD	218	12.1 ± 4.8	10.9 ± 4.8	0.10
Radial strain, median (IQR)	188	5.0 (3.0-8.0)	6.0 (4.0-8.0)	0.32
MSP, mean ± SD	180	8.5 ± 2.9	8.8 ± 2.4	0.68
LVEDD, mean ± SD, cm	266	5.4 ± 1.0	5.7 ± 1.1	0.02
LVESD, mean ± SD, cm	266	4.4 ± 1.2	4.7 ± 1.2	0.09
Follow-Up Cardiac Structure, Function, and Mechanics				
LVEF, mean ± SD, %	275	35.3 ± 14.3	33.1 ± 14.9	0.22
Longitudinal strain, mean ± SD,	239	10.7 ± 4.5	10.6 ± 4.3	0.94
Circumferential strain, mean ± SD	227	18.2 ± 6.8	17.0 ± 7.8	0.21
Radial strain, median (IQR)	219	7.0 (4.0-12.0)	9.0 (4.0-13.0)	0.10
MSP, mean ± SD	214	12.5 ± 4.7	12.6 ± 5.1	0.84

Values are mean (range), median (interquartile range), or n (%)

NICM= Non-ischemic cardiomyopathy; ACE/ARB = Angiotensin-converting enzyme inhibitor/Angiotensin II receptor blocker; CAD = coronary artery disease; CKD = chronic kidney disease; COPD = chronic obstructive pulmonary disease; eGFR = estimated glomerular filtration rate; BNP = brain natriuretic peptide; HFrEF = Heart failure with reduced ejection fraction; HTN = Hypertension; LVEDD = left ventricular end-diastolic dimension; LVEF = left ventricular ejection fraction; LVESD = left ventricular end systolic dimension; MRA = mineralocorticoid receptor antagonist; MSP = myocardial systolic performance; PAD = peripheral arterial disease

Table S2. Association of Follow-up Echocardiogram Strain Values with Hospitalization for Heart Failure, Death and Composite Outcome Among 166 Patients, Unadjusted and Adjusted for Age, Sex, Race and Recovery Status.

Variable	N	Hospitalization				Death				Composite Outcome			
		No (n=73)	Yes (n=93)	P-value	Adjusted P-value	No (n=123)	Yes (n=43)	P-value	Adjusted P-value	No (n=57)	Yes (n=109)	P-value	Adjusted P-value
LS	146	11.5 ± 4.9	10.0 ± 4.0	0.05	0.05	11.3 ± 4.5	8.6 ± 3.8	<0.01	0.08	12.3 ± 4.7	9.7 ± 4.2	<0.01	0.01
CS	141	19.1 ± 6.7	17.5 ± 7.0	0.19	0.23	18.9 ± 6.7	16.2 ± 7.0	0.05	0.64	20.1 ± 6.8	17.2 ± 6.7	0.02	0.06
		7.0	7.0			7.0	6.0			7.0	6.5		
RS	139	(4.0-12.0)	(4.0-11.0)	0.98	0.71	(4.0-12.0)	(2.5-10.5)	0.19	0.34	(4.0-12.0)	(4.0-11.5)	0.60	0.78
MSP	136	13.0 ± 4.6	12.0 ± 4.9	0.25	0.28	13.0 ± 4.7	10.4 ± 4.3	0.01	0.20	13.6 ± 4.4	11.8 ± 4.8	0.03	0.12

LS = longitudinal strain; CS = circumferential strain; RS = radial strain; MSP = myocardial systolic performance

*Mean±SD or Median (IQR) reported as appropriate

Figure S1. ROC of Varied GLS Cutpoints as a Predictor of Recovery.