

**Table S1** Clinical characteristics of the patients stratified by whether diagnosis CA in the training and validation cohorts

Variables	Training cohort			Validation cohort		
	CA (n=106)	Non-CA (n=130)	p-value	CA (n=46)	Non-CA (n=55)	p-value
<b>Demographics</b>						
Age (years)	60 (53,69)	62 (53,71)	0.470	65 (55,69)	60 (51,72)	0.279
Male sex, n (%)	76 (71.7)	74 (56.9)	0.019	30 (65.2)	40 (72.7)	0.415
<b>Comorbidities</b>						
Hypertension, n (%)	26 (24.5)	85 (65.4)	<0.001	11 (23.9)	33 (60.0)	<0.001
Coronary artery disease, n (%)	28 (26.4)	42 (32.3)	0.324	12 (26.1)	12 (21.8)	0.616
Diabetes mellitus, n (%)	14 (13.2)	35 (26.9)	0.010	5 (10.9)	13 (23.6)	0.095
Anemia, n (%)	42 (39.6)	46 (35.4)	0.503	18 (39.1)	16 (29.1)	0.288
Pacemaker, n (%)	15 (14.2)	14 (10.8)	0.431	0 (0)	11 (20.0)	0.001
<b>Laboratory tests</b>						
NT-proBNP (ng/L)	5811 (2881,10868)	3340 (1207,10391)	0.019	6559 (3628,15816)	2904 (1510,4896)	<0.001
hs-cTnI (ng/L)	131.6 (56.8,286.1)	45.6 (22.0,149.3)	0.001	206.3 (68.5,451.1)	35.0 (21.7,108.0)	<0.001
Hemoglobin (g/L)	124 (108,138)	124 (109,138)	0.994	124 (103,137)	124 (114,146)	0.286
Creatinine (umol/L)	95 (72,126)	96 (75,140)	0.516	102 (83,172)	94 (78,145)	0.136
eGFR (mL/min/1.73 m <sup>2</sup> )	69.8 (43.9,90.3)	68.2 (41.8,83.6)	0.083	62.9 (35.4,78.7)	64.5 (37.9,86.2)	0.411
<b>Electrocardiographic findings</b>						
Low QRS voltage, n (%)	18 (17.0)	9 (6.9)	0.016	8 (17.4)	3 (5.5)	0.055
Pseudo-necrosis, n (%)	31 (29.2)	21 (16.2)	0.016	13 (28.3)	8 (14.5)	0.091
Atrial fibrillation/flutter, n (%)	15 (14.2)	32 (24.6)	0.045	7 (15.2)	9 (16.4)	0.875
Poor precordial R wave progression, n (%)	43 (40.6)	18 (13.8)	<0.001	12 (26.1)	6 (10.9)	0.047
AV conduction block, n (%)	13 (12.3)	12 (9.2)	0.451	6 (13.0)	6 (10.9)	0.741
Bundle branch block, n (%)	31 (29.2)	28 (21.5)	0.174	17 (37.0)	13 (23.6)	0.145
<b>Echocardiographic findings</b>						
LVEF (%)	50 (41,58)	55 (45,60)	0.035	48 (44,54)	55 (44,61)	0.012
LVDd (mm)	42 (39,46)	48 (44,51)	<0.001	42 (39,46)	47 (42,51)	<0.001
IVSd (mm)	17 (14,19)	14 (12,16)	<0.001	17 (14,19)	15 (14,18)	0.239
PWTd (mm)	16 (14,18)	12 (11,15)	<0.001	15 (13,18)	13 (12,14)	0.001
RWT	0.78 (0.64,0.91)	0.57 (0.50,0.65)	<0.001	0.77 (0.62,0.90)	0.60 (0.53,0.72)	<0.001
E/A	2.45 (1.50,3.29)	1.16 (0.69,1.98)	<0.001	2.34 (1.63,3.32)	1.12 (0.73,1.93)	<0.001
E/e'	29 (22,40)	24 (17,29)	<0.001	30 (21,40)	21 (16,26)	0.001
GLS (%)	-7.7 (-9.7, -5.9)	-10.1(-12.6, -7.4)	<0.001	-8.4 (-10.2, -6.4)	-10.2 (-12.7, -8.3)	0.014
Strain apical sparing pattern, n (%)	71 (84.5)	30 (40.5)	<0.001	30 (88.2)	13 (37.1)	<0.001
TAPSE (mm)	11 (9,13)	14 (12,16)	<0.001	10 (8,12)	13 (11,15)	0.002
RV wall thickening, n (%)	81 (76.4)	35 (26.9)	<0.001	31 (67.4)	16 (29.1)	<0.001
Biatial enlargement, n (%)	76 (71.7)	73 (56.2)	0.014	27 (58.7)	31 (56.4)	0.813
Pericardial effusion, n (%)	86 (81.1)	77 (59.2)	<0.001	32 (69.6)	34 (61.8)	0.415

NT-proBNP, N-terminal pro-brain natriuretic peptide; hs-cTnI, high-sensitivity cardiac troponin I; eGFR, estimated glomerular filtration rate; AV, atrioventricular; LVEF, left ventricular ejection fraction; LVDd, left ventricular end diastolic diameter; IVSd, interventricular septum thickness in diastole; PWTd, left ventricular posterior wall thickness in diastole; RWT, relative wall thickness; E/A: early diastolic mitral peak flow velocity/late diastolic mitral peak flow velocity; E/e': E-wave/ e'-wave; GLS, global longitudinal strain; TAPSE, tricuspid annular plane systolic excursion; RV, right ventricular.

**Table S2** Clinical characteristics of AL-CA and ATTR-CA

Variables	Available data	CA (n=152)	ATTR-CA (n=35)	AL-CA (n=117)	P-value
<b>Demographics</b>					
Age (years)	152	61 (54.69)	60 (54.69)	61 (54.69)	0.738
Male, n (%)	152	106 (69.7)	26 (74.3)	80 (68.4)	0.504
<b>Comorbidities</b>					
Hypertension, n (%)	152	37 (24.3)	9 (25.7)	28 (23.9)	0.829
Coronary artery disease, n (%)	152	40 (26.3)	7 (20.0)	33 (28.2)	0.333
Diabetes mellitus, n (%)	152	19 (12.5)	3 (8.6)	16 (13.7)	0.610
Anemia, n (%)	152	60 (39.5)	11 (31.4)	49 (41.9)	0.267
Pacemaker, n (%)	152	15 (9.9)	4 (11.4)	11 (9.4)	0.976
<b>Laboratory tests</b>					
NT-proBNP (ng/L)	152	6016 (3097,12544)	3403 (1324,6896)	6499 (3558,13878)	0.001
hs-cTnl (ng/L)	152	156.2 (60.6,317.1)	96.9 (27.5,238.8)	177.5 (67.6,323.6)	0.045
Hemoglobin (g/L)	152	124 (106,137)	125 (111,139)	122 (106,136)	0.193
Creatinine (umol/L)	149	98 (76,143)	93 (72,112)	98 (76,148)	0.166
eGFR (mL/min/1.73 m <sup>2</sup> )	149	67.5 (42.4,88.9)	78.0 (51.9,90.4)	66.3 (40.8,88.5)	0.144
<b>Electrocardiographic findings</b>					
Low QRS voltage, n (%)	152	26 (17.1)	4 (11.4)	22 (18.8)	0.309
Pseudo-necrosis, n (%)	152	44 (28.9)	12 (34.3)	32 (27.4)	0.427
Atrial fibrillation/flutter, n (%)	152	11 (14.5)	5 (14.3)	17 (14.5)	0.971
Poor precordial R wave progression, n (%)	152	55 (36.2)	11 (31.4)	44 (37.6)	0.505
AV conduction block, n (%)	152	19 (12.5)	3 (8.6)	16 (13.7)	0.423
Bundle branch block, n (%)	152	48 (31.6)	14 (40.0)	34 (29.1)	0.222
<b>Echocardiographic findings</b>					
LVEF (%)	152	50 (42,56)	48 (41,56)	50 (43,57)	0.729
LVDd (mm)	152	42 (39,46)	44 (40,47)	41 (38,46)	0.111
IVSd (mm)	152	17 (14,19)	19 (14,22)	16 (14,18)	0.065
PWTd (mm)	152	16 (13,18)	16 (14,20)	15 (13,17)	0.054
RWT	152	0.78 (0.63,0.90)	0.80 (0.68,0.98)	0.77 (0.63,0.89)	0.265
E/A	152	2.41 (1.59,3.30)	2.37 (0.85,3.41)	2.41 (1.67,3.27)	0.807
E/e'	152	29 (22,40)	25 (17,39)	30 (23,40)	0.084
GLS (%)	118	-7.9 (-9.7, -6.2)	-9.1 (-10.2, -6.5)	-7.7 (-9.5, -6.0)	0.081
Strain apical sparing pattern, n (%)	118	101 (85.6)	26 (96.3)	75 (82.4)	0.136
TAPSE (mm)	111	11 (9,13)	12 (10,14)	10 (8,12)	0.054
RV wall thickening, n (%)	152	112 (73.7)	24 (68.6)	88 (75.2)	0.434
Biatial enlargement, n (%)	152	103 (67.8)	23 (65.7)	80 (68.4)	0.768
Pericardial effusion, n (%)	152	118 (77.6)	25 (71.4)	93 (79.5)	0.315

NT-proBNP, N-terminal pro-brain natriuretic peptide; hs-cTnl, high sensitivity cardiac troponin I; eGFR, estimated glomerular filtration rate; AV, atrioventricular; LVEF, left ventricular ejection fraction; LVDd, left ventricular end diastolic diameter; IVSd, interventricular septum thickness in diastole; PWTd, left ventricular posterior wall thickness in diastole; RWT, relative wall thickness; E/A: early diastolic mitral peak flow velocity/late diastolic mitral peak flow velocity; E/e': E-wave/ e'-wave; GLS, global longitudinal strain; TAPSE, tricuspid annular plane systolic excursion; RV, right ventricular.