

Table S1: Comparison of cardiac magnetic resonance imaging findings.

Variable	Troponin-negative controls (n=24)	Troponin-positive, unobstructed coronary arteries (n=19)	<i>p</i>
Indexed LV EDV (ml/m ²)	65 (59 to 71)	85 (68 to 100)	<0.001
Indexed LV ESV (ml/m ²)	22 (16 to 32)	36 (24 to 70)	0.005
LV ejection fraction (%)	63 ± 12	52 ± 16	0.019
Indexed LV mass(g/m ²)	80 (67 to 103)	100 (79 to 133)	0.017
LV systolic dysfunction, n(%)	4(17)	10(53)	0.012
Maximum wall thickness (mm)	14 ± 2.4	14.5 ± 2	0.483
LVH, n (%)	13 (54)	14 (74)	0.221
Asymmetric LVH, n (%)	4 (17)	2 (11)	0.678
Indexed LA volume (ml/m ²)	30 (28 to 36)	44(32 to 56)	<0.001
Global T2-w SI Ratio	1.4 ± 0.2	1.4 ± 0.1	0.551
Basal T2-w SI Ratio	1.4 ± 0.2	1.5 ± 0.2	0.661
Mid-ventricular T2-w SI Ratio	1.4 ± 0.2	1.5 ± 0.2	0.309
Apical T2-w SI Ratio	1.4 ± 0.2	1.4 ± 0.2	0.984
Global native T1 (ms)	1026 ± 39	1042 ± 40	0.198
Basal native T1 (ms)	1023 ± 39	1052 ± 38	0.105
Mid-ventricular native T1 (ms)	1024 ± 45	1042 ± 45	0.214
Apical native T1 (ms)	1019 ± 41	1032 ± 49	0.374
Global T2 relaxation time (ms)	47 ± 2	49 ± 2	0.004
Basal T2 relaxation time (ms)	47 ± 2	48 ± 2	0.029
Mid-ventricular T2 relaxation time (ms)	48 ± 2	50 ± 3	0.003
Apical T2 relaxation time (ms)	48 ± 2	49 ± 2	0.007
Global ECV (%)	23 ± 3	25 ± 4	0.047
Basal ECV (%)	22 ± 4	25 ± 5	0.066
Mid-ventricular ECV (%)	22 ± 3	25 ± 4	0.008
Apical ECV (%)	24 ± 6	25 ± 4	0.460
LGE present, n (%)	12/24 (50)	14/17 (82)	0.050
Infarct-pattern, n(%)	0(0)	5/17(29)	-
Non-ischaemic, n(%)	12/24 (50)	9/17(53)	0.445

P value for test of two proportions. hs cTnT, high-sensitive cardiac troponin T; NT-proBNP, N-terminal prohormone of brain natriuretic peptide; LV, left ventricular; LV EDV, left ventricular end diastolic volume; LV ESV, left ventricular end systolic volume; LVH, left ventricular hypertrophy; SI, signal intensity; T2-w, T2-weighted; ECV, extracellular volume; LGE, late gadolinium enhancement.

Table S2: Correlation of high-sensitive cardiac troponin T with imaging biomarkers among the group with troponin-positive unobstructed coronary arteries.

Variable	Spearman's correlation coefficient	<i>p</i>
Indexed left ventricular EDV, mL/m ²	-0.096	0.694
Indexed left ventricular mass, g/m ²	-0.295	0.221
Indexed left atrial volume, mL/m ²	0.030	0.904
Left ventricular ejection fraction, %	-0.029	0.906
T2-weighted signal intensity ratio	-0.149	0.541
Global T2 time, ms	-0.039	0.875
Global native T1 time, ms	-0.070	0.775
Global extracellular volume fraction, %	-0.229	0.402

EDV, end-diastolic volume.

Table S3: Comparison of imaging parameters in troponin-positive unobstructed coronary artery group and delta 20% with the troponin-negative controls.

Variable	Troponin-negative controls (n=24)	Troponin-positive, unobstructed coronary artery with delta 20% (n=15)	<i>p</i>
Age in years, Mean \pm SD	47 \pm 14	58 \pm 11	0.015
hs cTnT (ng/L)	11 (6 to 11)	193 (57 to 282)	<0.001
NT-proBNP (ng/L)	77 (22 to 396)	279 (52 to 981)	0.101
Indexed LV EDV (ml/m ²)	65 (59 to 71)	77 (67 to 100)	0.003
Indexed LV ESV (ml/m ²)	22 (16 to 32)	36 (24 to 70)	0.006
LV ejection fraction (%)	63 \pm 12	51 \pm 17	0.030
Indexed LV mass(g/m ²)	80 (67 to 103)	98 (79 to 128)	0.054
LV systolic dysfunction, n(%)	4 (17)	8 (53)	0.253
Maximum wall thickness (mm)	14 \pm 2.4	15 \pm 2.1	0.338
LVH, n (%)	13 (54)	11 (73)	0.348
Indexed LA volume (ml/m ²)	30 (28 to 36)	44 (32 to 55)	<0.001
Global T2-w SI Ratio	1.4 \pm 0.2	1.5 \pm 0.1	0.399
Basal T2-w SI Ratio	1.4 \pm 0.2	1.5 \pm 0.2	0.383
Mid-ventricular T2-w SI Ratio	1.4 \pm 0.2	1.5 \pm 0.2	0.163
Apical T2-w SI Ratio	1.4 \pm 0.2	1.4 \pm 0.2	0.966
Global native T1 (ms)	1026 \pm 39	1027 \pm 37	0.352
Basal native T1 (ms)	1023 \pm 39	1058 \pm 39	0.191
Mid-ventricular native T1 (ms)	1024 \pm 45	1034 \pm 41	0.484
Apical native T1 (ms)	1019 \pm 41	1029 \pm 40	0.449
Global T2 (ms)	47 \pm 2	49 \pm 2	0.091
Basal T2 (ms)	47 \pm 2	48 \pm 2	0.062
Mid-ventricular T2 (ms)	48 \pm 2	49 \pm 3	0.086
Apical T2 (ms)	48 \pm 2	49 \pm 2	0.044
Global ECV (%)	23 \pm 3	26 \pm 4	0.086
Basal ECV (%)	22 \pm 4	25 \pm 5	0.174
Mid-ventricular ECV (%)	22 \pm 3	26 \pm 4	0.020
Apical ECV (%)	24 \pm 6	25 \pm 4	0.203
LGE present, n (%)	12/24 (50)	13/14 (93)	0.008
Infarct-pattern, n(%)	0/24(0)	5/14 (36)	0.002
Non-ischaemic, n(%)	12/24 (50)	8/14 (57)	0.681

SD, standard deviation; hs cTnT, high-sensitive cardiac troponin T; NT-proBNP, N-terminal prohormone of brain natriuretic peptide; LV, left ventricular; EDV, end diastolic volume; ESV, end systolic volume; LVH, left ventricular hypertrophy; LA, left atrial; T2-w, T2-weighted; SI, signal intensity; ECV, extracellular volume; LGE, late gadolinium enhancement.

Table S4: Comparison of imaging parameters and biomarkers among patients with troponin-positive unobstructed coronary artery based on pattern of late gadolinium enhancement.

Variable	Non-ischaemic LGE (n=9)	Infarct-pattern LGE (n=5)	<i>p</i>
Age in years, Mean \pm SD	58 \pm 12	51 \pm 7	0.298
Male, n(%)	7 (78)	3 (60)	0.579
Creatinine (μ mol/L)	105 (94 to 110)	95 (73 to 111)	0.518
LDH (U/L)	253 (211 to 298)	286 (213 to 387)	0.788
Haemoglobin (g/L)	16 \pm 1.7	14 \pm 2.8	0.190
hs cTnT (ng/L)	103 (21 to 211)	302 (103 to 510)	0.060
NT-proBNP (ng/L)	512 (71 to 1266)	113 (42 to 252)	0.171
Indexed LV EDV (ml/m ²)	100 (72 to 133)	67 (66 to 74)	0.019
Indexed LV ESV (ml/m ²)	54 (26 to 79)	23 (20 to 27)	0.029
LV ejection fraction (%)	49 \pm 16	67 \pm 6	0.029
Indexed LV mass(g/m ²)	111 (87 to 140)	79 (70 to 101)	0.083
LV systolic dysfunction, n(%)	5(67)	0(0)	0.033
Maximum wall thickness (mm)	15 \pm 2.4	13.5 \pm 1.6	0.083
LVH, n (%)	7 (78)	3 (60)	0.579
Indexed LA volume (ml/m ²)	54 (37 to 57)	39 (32 to 46)	0.147
Global T2-w SI Ratio	1.4 \pm 0.2	1.4 \pm 0.1	0.518
Basal T2-w SI Ratio	1.5 \pm 0.2	1.4 \pm 0.2	0.298
Mid-ventricular T2-w SI Ratio	1.5 \pm 0.2	1.5 \pm 0.2	0.699
Apical T2-w SI Ratio	1.4 \pm 0.2	1.4 \pm 0.2	0.797
Global native T1 (ms)	1045 \pm 34	1048 \pm 52	0.898
Basal native T1 (ms)	1052 \pm 34	1067 \pm 49	0.606
Mid-ventricular native T1 (ms)	1046 \pm 39	1045 \pm 56	0.898
Apical native T1 (ms)	1038 \pm 35	1033 \pm 61	0.898
Global T2 (ms)	48 \pm 2	50 \pm 2	0.298
Basal T2 (ms)	48 \pm 2	49 \pm 2	0.364
Mid-ventricular T2 (ms)	49 \pm 1	51 \pm 4	0.298
Apical T2 (ms)	49 \pm 1	50 \pm 3	0.147
Global ECV (%)*	25 \pm 3	27 \pm 6	0.381
Basal ECV (%)	25 \pm 4	26 \pm 8	1.000
Mid-ventricular ECV (%)	25 \pm 3	27 \pm 5	0.714
Apical ECV (%)	24 \pm 2	28 \pm 6	0.381

SD, standard deviation; LDH, lactate dehydrogenase; hs cTnT, high-sensitive cardiac troponin T; NT-proBNP, N-terminal prohormone of brain natriuretic peptide; LV, left ventricular; EDV, end diastolic volume; ESV, end systolic volume; LVH, left ventricular hypertrophy; LA, left atrial; T2-w, T2-weighted; SI, signal intensity; ECV, extracellular volume; LGE, late gadolinium enhancement.

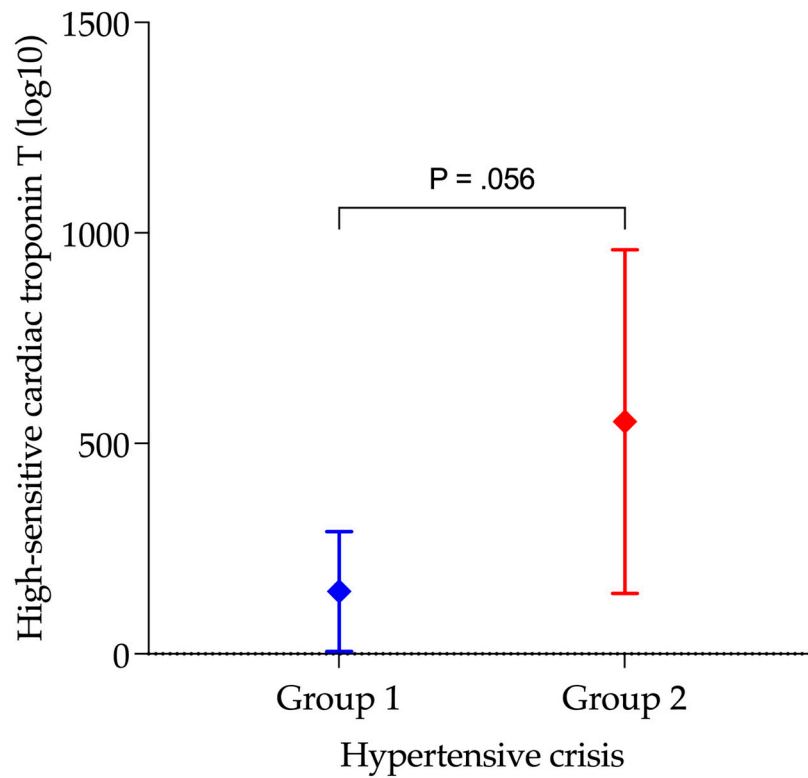


Figure S1: Comparison of cardiac troponin levels in patients with hypertensive crisis and troponin-positive unobstructed coronary arteries. Group 1, No infarct-pattern late gadolinium enhancement; Group 2, Infarct-pattern late gadolinium enhancement.