



Figure S1 Flow chart of the study.

Table S1 Description of categorical variables of the study

Variable	Definition
Marital status	Marital status (Married / Widowed or bachelor).
Sex	Male or Female, reference:
Educational level	Educational level (Under high school/ High school or above).
Hypertension	Hypertension Status (Yes/No), reference: no.
CAD	Presence of coronary artery disease (Yes/No), reference: no.
Calcium channel blocker	Use of calcium-channel antagonist (Yes/No).
Diuretic	Use of diuretic (Yes/No), reference: no.
Beta-blocker	Use of β -receptor-blocking agent (Yes/No).
Calcium supplement	Use of calcium supplement (Yes/No).
Antiplatelet drugs	Use of antiplatelet drugs (Yes/No), reference: no.
Diabetes mellitus	Parental Diabetes History (Yes/No), reference: no.
Diabetic nephropathy	Presence of diabetic nephropathy (Yes/No), reference: no.
Use of insulin	Use of insulin (Yes/No), reference: no.
History of stroke	History of stroke (Yes/No).
ST - segment depression	ECG determined ST - segment depression (Yes, No).
PAH	Doppler echocardiography determined pulmonary arterial hypertension (Yes/No).

CAD, coronary artery disease; PAH, pulmonary arterial hypertension.

Table S2 Baseline Characteristics of Patients

Variables	Total (%)	No cardiac complications	Cardiac complications	P value
Age (years)	232	49.95±12.95	52.57±13.30	0.129
Systolic blood pressure (mmHg)	232	160.94±25.89	165.06±26.87	0.236
Diastolic blood pressure (mmHg)	232	90.13±14.84	93.98±20.00	0.124
Erythrocyte (10 ⁹ /L)	232	3.01±0.66	2.91±0.66	0.234
Uric acid (umol/L)	199	456.56±144.63	456.25±125.93	0.987
Serum chlorine (mmol/L)	232	102.43±4.55	103.03±6.30	0.401
Hemoglobin (g/L)	232	90.74±19.94	86.16±18.86	0.055
Leukocyte (10 ⁹ /L)	232	6.27±1.94	6.85±2.54	0.152
Alanine transaminase (IU/L)	229	18.38±14.42	20.33±20.90	0.723
Aspartate aminotransferase (IU/L)	230	20.93±9.55	22.32±13.23	0.683
Alkaline phosphatase (IU/L)	230	276.70±854.14	351.76±1358.32	0.290
Albumin (g/L)	232	38.33±8.09	34.45±8.33	<0.001
Urea nitrogen (mmol/L)	232	29.81±10.04	28.69±12.49	0.173
Creatinine (umol/L)	232	851.52±302.30	866.77±434.36	0.583
β2- micro globulin (mg/L)	128	29.12±15.95	24.49±11.70	0.223
Serum potassium (mmol/L)	232	5.44±6.01	4.67±0.85	0.529
Serum sodium (mmol/L)	232	151.79±122.22	138.90±12.33	0.169
Serum calcium (mmol/L)	232	1.97±0.28	1.91±0.27	0.080
Serum phosphate (mmol/L)	232	2.01±1.29	2.20±1.78	0.424
Fasting blood-glucose (mmol/L)	232	6.02±1.95	5.91±1.90	0.896
Triglyceride (mmol/L)	227	1.65±0.88	1.54±0.77	0.295
Total cholesterol (mmol/L)	229	4.85±1.56	4.89±1.57	0.827
HDL-C (mmol/L)	229	1.33±0.69	1.89±6.55	0.805
LDL-C (mmol/L)	229	2.54±0.90	2.73±1.12	0.321
C-reaction protein (g/L)	232	10.43±24.76	8.93±16.03	0.147
Creatine Kinase (IU/L)	232	190.21±233.53	269.84±262.08	<0.001
Lactate dehydrogenase (IU/L)	232	262.92±136.76	408.51±377.47	<0.001
Creatine kinase isoenzyme (IU/L)	232	14.49±8.18	20.50±33.84	0.019
Serum ferritin (umol/L)	232	15.04±6.71	13.92±6.78	0.223
D-dimer (mg/L)	232	0.55±0.83	0.85±1.29	0.010
Total iron binding capacity (umol/L)	174	42.83±9.31	40.59±10.06	0.131
Transferrin (g/L)	108	1.95±0.40	31.12±101.40	0.484
Parathyroid hormone (pg/mL)	190	480.19±324.61	490.13±464.17	0.667
Folic acid (nmol/L)	156	17.37±19.55	33.77±120.59	0.180
LVEF (%)	232	55.85±9.21	55.06±8.99	0.532
Left atrial diameter (mm)	232	31.35±5.34	34.60±5.66	<0.001
Sex	232			0.019
Male		62(42.8%)	83(57.2%)	
Female		51(58.6%)	36(41.4%)	
Marital status	232			1.000
Married		108(48.6%)	114(51.4%)	
Widowed or bachelor		5(50.0%)	5(50.0%)	
Educational level	232			0.556
Under high school		102(48.1%)	110(51.9%)	
High school or above		11(55.0%)	9(45%)	
Coronary artery disease	232			0.031
Yes		4(23.5%)	13(76.5%)	
No		109(50.7%)	106(49.3%)	
Hypertension	232			0.023
Yes		99(46.5%)	114(53.5%)	
No		14(73.7%)	5(26.3%)	
Calcium channel blocker	232			0.112
Yes		101(47.2%)	113(52.8%)	
No		12(66.7%)	6(33.3%)	
Diuretic	232			0.074
Yes		26(39.4%)	40(60.6%)	
No		87(52.4%)	79(47.6%)	
Beta-blocker	232			0.713
Yes		26(51.0%)	25(49.0%)	
No		87(48.1%)	94(51.9%)	
Calcium supplement	232			0.483
Yes		17(43.6%)	22(56.4%)	
No		96(49.7%)	97(50.3%)	
Antiplatelet Drugs	232			0.080
Yes		6(30.0%)	14(70.0%)	
No		107(50.5%)	105(49.5%)	
Diabetic nephropathy	232			0.002
Yes		8(24.2%)	25(75.8%)	
No		105(52.8%)	94(47.2%)	
Diabetes mellitus	232			0.002
Yes		11(26.8%)	30(73.2%)	
No		102(53.4%)	89(46.6%)	
Use of insulin	232			0.002
Yes		10(25.6%)	29(74.4%)	
No		103(53.4%)	90(46.6%)	
History of stroke	232			0.316
Yes		5(35.7%)	9(64.3%)	
No		108(49.5%)	110(50.5%)	
ST - segment depression	232			0.178
Yes		47(43.9%)	60(56.1%)	
No		66(52.8%)	59(47.2%)	
Pulmonary arterial hypertension	232			0.238
Yes		17(40.5%)	25(59.5%)	
No		96(50.5%)	94(49.5%)	

Data were N (%) or mean±standard deviation. Continuous variables used T-test or Mann-Whitney U test and Categorical variables used chi-squared test or Fisher's exact test for compare the baseline characteristics of patients with cardiac complications and without cardiac complications.