

Table 2. Baseline characteristics of HFpEF patients according to the H₂FPEF score by BMI \geq 30 kg/m²

	All patients (n = 497)	Low-score group (0-3 points) (n = 167)	Intermediate- score group (4-6 points) (n = 230)	High-score group (7-9 points) (n = 100)	P
H ₂ FPEF score (BMI \geq 30 kg/m ²)	4.59 \pm 2.03	3.20 \pm 1.24	6.03 \pm 1.40 ^{&}	8.01 \pm 0.89 ^{#*}	<0.001
Age (years)	69.05 \pm 10.47	67.38 \pm 12.16	68.89 \pm 9.42	72.24 \pm 8.99 ^{#*}	0.001
Female (%)	288 (57.9)	91 (54.5)	126 (54.8)	71 (71.0)	0.013
BMI (kg/m ²)	25.99 \pm 3.57	25.07 \pm 2.85	25.72 \pm 3.50	28.15 \pm 3.94 ^{#*}	<0.001
SBP (mm Hg)	135.30 \pm 20.78	135.11 \pm 20.22	134.66 \pm 21.46	137.10 \pm 20.18	0.515
DBP (mm Hg)	79.02 \pm 13.07	76.78 \pm 12.38	79.85 \pm 13.53	80.88 \pm 12.70 [#]	0.036
Heart rate	82.85 \pm 25.95	76.51 \pm 23.73	85.60 \pm 27.09	87.10 \pm 25.09 ^{#*}	<0.001
Smoking (%)	100 (20.1)	29 (17.4)	36 (15.7)	10 (10.0)	0.252
Hypertension (%)	358 (72.0)	108 (64.7)	163 (70.9)	87 (87.0)	<0.001
Diabetes (%)	123 (24.7)	39 (23.4)	59 (25.7)	25 (25.0)	0.870
Atrial fibrillation (%)	271 (54.5)	5 (3.0)	166 (72.2)	100 (100.0)	<0.001
Abnormal of thyroid function (%)	137 (27.6)	39 (23.4)	67 (29.1)	31 (31.0)	0.318
Ischemic heart disease (%)	258 (51.9)	79 (47.3)	130 (56.5)	49 (49.0)	0.156
Previous hospitalization for HF (%)	130 (26.2)	23 (13.8)	64 (27.8)	43 (43.0)	<0.001
NYHA					
I (%)	1 (0.2)	-	1 (0.4)	-	-
II (%)	322 (64.8)	119 (71.3)	161 (70.0)	42 (42.0)	<0.05
III (%)	147 (29.6)	43 (25.7)	53 (23.0)	51 (51.0)	<0.05
IV (%)	27 (5.4)	5 (3.0)	15 (6.5)	7 (7.0)	>0.05
Blood test					
BNP (pmol/L)	385.94 \pm 336.24	366.31 \pm 332.37	383.20 \pm 313.01	426.12 \pm 388.00	0.139
Cre (μ mol/L)	77.04 \pm 22.80	74.86 \pm 22.84	77.23 \pm 22.14	80.24 \pm 24.03	0.173
eGFR (mL/min/1.73 m ²)	77.96 \pm 19.09	80.97 \pm 18.98	78.04 \pm 18.97	72.75 \pm 18.59 [#]	0.003

UA (μmol/L)	341.35±103.14	332.63±102.83	338.24±101.09	363.07±106.30 ^{#*}	0.054
ALT (U/L)	21.44±18.36	20.72±16.44	22.72±21.73	19.74±11.60	0.328
AST (U/L)	22.22±13.20	22.56±14.71	22.12±13.19	21.88±10.35	0.908
Hemoglobin (g/L)	130.94±19.54	127.81±19.39	133.57±19.78 ^{&}	130.14±18.54	0.013
K ⁺ (mmol/L)	4.00±0.47	4.03±0.45	4.01±0.46	3.93±0.51	0.253
Na ⁺ (mmol/L)	142.50±3.19	142.56±3.13	142.41±3.19	142.62±3.33	0.820
Serum glucose (mmol/L)	5.46±2.05	5.44±1.99	5.53±2.22	5.34±1.71	0.714
HbA1c (%)	6.25±1.17	6.27±1.15	6.25±1.23	6.23±1.05	0.965
TC (mmol/L)	3.95±0.96	4.04±0.92	3.96±1.02	3.81±0.84	0.166
TG (mmol/L)	1.32±0.72	1.40±0.87	1.29±0.66	1.26±0.57	0.202
LDL-C (mmol/L)	1.32±0.72	1.40±0.87	1.29±0.66	1.26±0.57	0.164
HDL-C (mmol/L)	2.44±0.83	2.48±0.78	2.48±0.88	2.30±0.78	0.142
Echocardiography					
e' (cm/s)	5.48±1.79	5.22±1.89	5.67±1.83	5.48±1.43	0.044
LVMl (g/m)	112.46±28.26	116.04±31.37	109.19±26.75	114.00±25.44 [#]	0.048
LVED (mm)	46.18±4.53	46.43±4.69	45.74±4.39	46.79±4.51	0.105
LAD (mm)	37.86±5.15	36.02±4.96	37.82±4.80 ^{&}	41.04±4.72 ^{#*}	<0.001
RVD (mm)	22.21±4.97	21.80±3.82	22.21±5.24	22.86±5.91	0.242
IVST (mm)	10.15±1.31	10.20±1.39	10.04±1.26	10.34±1.29	0.134
LVPW (mm)	10.10±1.29	10.13±1.39	9.98±1.23	10.33±1.26	0.083
RAD (mm)	47.64±6.58	45.20±5.37	47.82±6.47 ^{&}	51.28±6.97 ^{#*}	<0.001
LVEF (%)	62.00±4.89	61.40±5.43	62.32±4.57	62.29±4.60	0.145
E/e'	15.56±7.23	14.33±6.61	15.41±7.43	17.97±7.22 ^{#*}	<0.001
PAP (mm Hg)	33.26±8.99	29.41±6.93	33.73±8.92 ^{&}	38.59±9.29 ^{#*}	<0.001
Drug therapy					
Beta-blocker (%)	298 (60.0)	93 (55.7)	142 (61.7)	63 (63.0)	0.376
ACEI/ARB (%)	173 (34.8)	56 (33.5)	83 (36.1)	34 (34.0)	0.855
Spironolactone (%)	212 (42.7)	47 (28.1)	115 (50.0)	50 (50.0)	<0.001
Loop diuretic (%)	368 (74.0)	107 (64.1)	169 (73.5)	92 (92.0)	<0.001
CCB (%)	160 (32.2)	57 (34.1)	72 (31.3)	31 (31.0)	<0.001

Antiplatelet drug (%)	286 (57.5)	107 (64.1)	1214 (53.9)	55 (55.0)	0.110
Anticoagulant drug (%)	410 (82.5)	124 (74.3)	193 (83.9)	93 (93.0)	<0.001
HMG-CoA reductase inhibitor	372 (74.8)	131 (78.4)	163 (70.9)	78 (78.0)	0.165
Intervention therapy					
PCI (%)	79 (15.9)	40 (24.0)	32 (13.9)	7 (7.0)	<0.001
Radiofrequency ablation (%)	141 (28.4)	34 (20.4)	71 (30.9)	36 (36.0)	0.012
ICD (%)	72 (14.5)	29 (17.4)	31 (13.5)	12 (12.0)	0.406
CABG (%)	7 (1.4)	5 (3.0)	1 (0.4)	1 (1.0)	0.095

HFpEF: heart failure with preserved ejection fraction; BMI, body mass index; SBP, systolic blood pressure; DBP, diastolic blood pressure; NYHA, New York Heart Association; Cre, creatinine; eGFR, estimated glomerular filtration rate; UA, uric acid; ALT, alanine aminotransferase; AST, aspartate aminotransferase; TC, cholesterol; TG, triglyceride; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; hs-CRP, high-sensitivity C-reactive protein; LVMI, *Left ventricular mass index*; LVED, Left ventricular end diastolic; LAD, left atrial diameter; RAD, right atrial diameter; RVD, right ventricle diameter; IVST, interventricular septal thickness; LVPW, left ventricular posterior wall thickness; LVEF, left ventricular ejection fraction; E/e', mitral Doppler early velocity/mitral annular early velocity; PAP, pulmonary artery systolic pressure; ACEI, angiotensin-converting enzyme inhibitor; ARB, angiotensin II receptor blocker; CCB, calcium channel blockers; HMG-CoA, β -Hydroxy β -methylglutaryl-CoA; PCI, percutaneous coronary intervention. ICD, implantable cardioverter defibrillators. CABG, coronary artery bypass graft. [#]Compared with low-score group, P < 0.05; ^{*}Compared with intermediate-score group, P < 0.05; [&]Compared with low-score group, P < 0.05.