

Supplemental Figure 1. Symptoms and signs of heart failure (HF) by age group

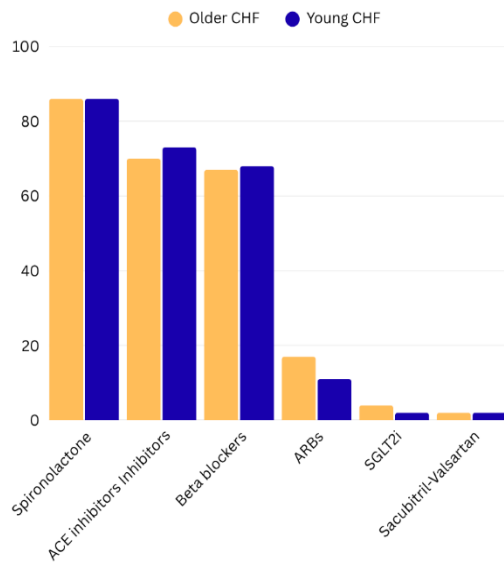


Figure 3A- Foundation medications.

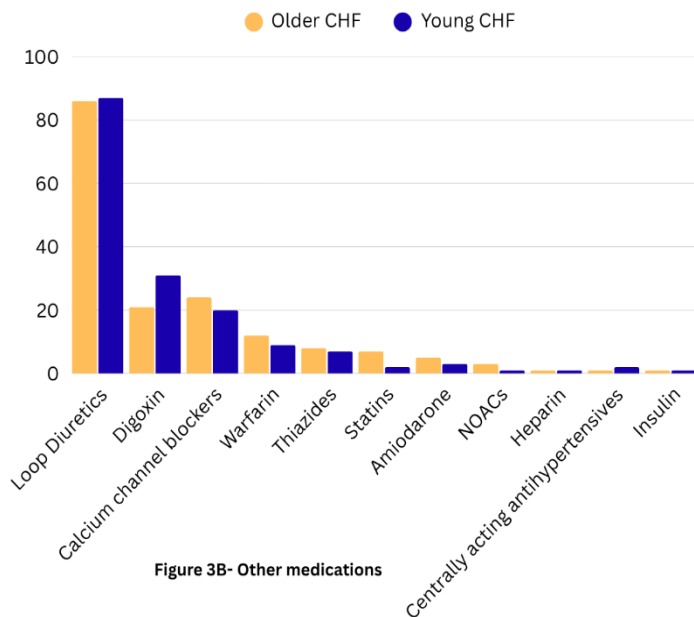


Figure 3B- Other medications

Supplemental Figure 2. Foundational heart failure (HF) medications prescribed to participants by age group (A) and other medications prescribed to participants by age group (B)

Supplemental Table 1. Cardiovascular risk factors and comorbidities reported by participants by age group

Characteristic (No., %)	Older HF Group (No. = 860)	Younger HF Group (No.= 430)	P
Cigarette smoking			.004
Never	699 (81%)	372 (87%)	
Previous	158 (18%)	53 (12%)	
Current	3 (0.3%)	5 (1.2%)	
Alcohol Consumption			.013
Never	524 (61%)	297 (69%)	
Previous	299 (35%)	115 (27%)	
Current	37 (4.3%)	18 (4.2%)	
Diabetes Mellitus	149 (17%)	13 (3.0%)	<.001
Hypertension	711 (83%)	232 (54%)	<.001
Asthma	18 (2.1%)	6 (1.4%)	.382
Arthritis	51 (5.9%)	2 (0.5%)	<.001
COPD	32 (3.7%)	2 (0.5%)	<.001
Family history of hypertension	125 (15%)	82 (19%)	.036
Family history of HF	28 (3.3%)	10 (2.3%)	.352
Other comorbidities, No. (%)	339 (39%)	151 (35%)	.133
No Previous Acute HF Admission			.834
0–1	828 (96%)	415 (97%)	
≥2	32 (3.7%)	15 (3.5%)	
NYHA Functional Class			.437
I	28 (3.3%)	21 (4.9%)	
II	531 (62%)	264 (61%)	
III	276 (32%)	130 (30%)	
IV	25 (2.9%)	15 (3.5%)	

HF: heart failure;

COPD: chronic obstructive pulmonary disease;

NYHA: New York Heart Association

Supplemental Table 2. Biophysical and laboratory profile of participants with HF by age group

Characteristic	Older HF Group	Young HF Group	P
	(No. = 860)	(No. = 430)	
Weight	70.0 (13.8)	67.8 (13.7)	.006
Height	164.4 (7.5)	164.4 (7.3)	.98
Body mass index	25.9 (5.0)	25.0 (4.6)	.002
Obesity			.028
Underweight	32 (3.8%)	20 (4.7%)	
Normal weight	303 (36.1%)	185 (43.4%)	
Overweight	369 (44.0%)	171 (40.1%)	
Obese	135 (16.1%)	50 (11.7%)	
Frequency of obesity and overweight	508 (60.5%)	223 (52.3%)	.005
Pulse	82.8 (15.9)	88.6 (16.6)	<.001
Respiratory rate (min)	24.8 (3.6)	24.7 (4.0)	.61
SBP (mm Hg)	123.6 (23.3)	116.1 (21.7)	<.001
DBP (mm Hg)	78.2 (14.7)	79.4 (16.1)	.18
Packed cell volume (%)	38.3 (5.1)	38.5 (5.5)	.466
White cell count (/uL)	7.16 (3.07)	7.28 (3.20)	.967
Platelets (/uL)	218 (75)	237 (94)	<.001
serum sodium (mmol/L)	137.4 (5.6)	137.0 (5.1)	.016
serum potassium mmol/L	3.91 (0.59)	3.82 (0.55)	.012
serum urea (mg/dL)	44 (30)	40 (30)	.002
serum creatinine (mg/dL)	1.35 (0.96)	1.37 (1.78)	.004
Estimated eGFR (mL/min)	53 (23)	63 (30)	<.001
Fasting glucose (mg/dL)	107 (34)	102 (18)	.286
Total cholesterol (mg/dL)	164 (39)	161 (28)	.768
LDL cholesterol (mg/dL)	101 (30)	99 (21)	.743
HDL cholesterol (mg/dL)	45 (14)	43 (14)	.024
Triglycerides (mg/dL)	97 (27)	97 (21)	.068

HF: heart failure; SBP: systolic blood pressure;

DBP: diastolic blood pressure; eGFR: estimated glomerular filtration rate;

LDL: low-density lipoprotein; HDL: high-density lipoprotein

Supplemental Table 3. Twelve-lead ECG and transthoracic echocardiographic findings in participants with HF by age group**12-Lead ECG Findings**

Characteristic	Older HF Group (No. = 860)	Young HF Group (No. = 430)	P
QRS interval (ms)	122 (40)	113 (34)	<.001
QTc interval (ms)	469 (82)	468 (99)	.337
Widened QRS	263 (41%)	91 (28%)	<.001
Atrial enlargement (No. [%])			.003
Right atrial enlargement	18 (2.7%)	14 (4.1%)	
Left atrial enlargement	214 (32%)	108 (32%)	
Biatrial enlargement	46 (6.8%)	39 (11%)	
Left ventricular hypertrophy (No. [%])	313 (45%)	186 (54%)	.010
Left ventricular hypertrophy with strain (No. [%])	150 (22%)	94 (27%)	.046
Right ventricular hypertrophy (No. [%])	16 (2.3%)	6 (1.7%)	.550
Atrial fibrillation (No. [%])	111 (16%)	25 (7.2%)	<.001
Previous myocardial infarction (No. [%])	10 (1.5%)	6 (1.8%)	.683

Echocardiographic Profile

Characteristic (No. [%])	Older HF Group (No. = 860)	Young HF Group (No. = 430)	P
Aortic root diameter (cm)	2.98 (0.56)	2.81 (0.53)	<.001
Left atrial diameter (cm)	4.52 (0.91)	4.47 (0.93)	.751
Interventricular septal thickness, diastole (cm)	1.11 (0.37)	1.09 (0.76)	.001
Interventricular septal thickness, systole (cm)	1.29 (0.42)	1.17 (0.43)	<.001
Left Ventricular posterior wall thickness, diastole (cm)	1.10 (0.32)	1.05 (0.35)	.002
Left ventricular posterior wall thickness, systole (cm)	1.65 (5.09)	1.41 (0.42)	.030
Left ventricular internal diameter, diastole (cm)	5.79 (1.12)	6.12 (1.16)	<.001
Left ventricular internal diameter, systole (cm)	4.70 (1.18)	5.05 (1.19)	<.001
Ejection fraction (%)	46 (15)	43 (15)	.017
Fractional shortening (%)	20 (8)	18 (8)	.022
Tricuspid annular plane systolic excursion (cm)	2.01 (0.64)	1.90 (0.57)	.036
Left atrial volume (mL)	119 (73)	115 (70)	.286
Right atrial volume (mL)	100 (59)	92 (59)	.127
Mitral E wave velocity (m/s)	1.06 (3.96)	0.97 (0.36)	.003
Mitral A wave velocity (m/s)	0.63 (1.10)	0.52 (0.25)	.002
E/A ratio	2.13 (4.85)	2.34 (2.84)	<.001
Deceleration time of mitral E (ms)	169 (69)	152 (60)	<.001
Isovolumetric relaxation time (ms)	134 (42)	124 (41)	.004
Mitral incompetence (No. [%])	328 (54%)	195 (64%)	.003
Tricuspid incompetence (No. [%])	310 (51%)	163 (54%)	.424
Spontaneous echoes (No. [%])	54 (8.9%)	30 (9.9%)	.606
Intracardiac clots (No. [%])	6 (1.0%)	2 (0.7%)	.999