Subgroup	Variable	Total	Event (%)	HR (95%CI)					P for interaction
Age≥45	HGI	76	6 (7.9)	0.72 (0.33~1.57)	-		-	-	0.86
Age<45	HGI	909	151 (16.6)	0.87 (0.77~0.99)			-		
Gender=male	HGI	579	80 (13.8)	0.84 (0.71~0.99)					0.958
Gender=female	HGI	406	77 (19)	0.97 (0.81~1.16)			-		
Race=1	HGI	609	89 (14.6)	0.92 (0.77~1.09)					0.716
Race=2	HGI	97	9 (9.3)	0.94 (0.58~1.52)		-	-	-	
Race=3	HGI	52	6 (11.5)	0 (0~Inf)	~				→
Race=4	HGI	227	53 (23.3)	0.89 (0.72~1.1)					
Diabetes=no	HGI	542	89 (16.4)	0.54 (0.4~0.75)			-		<0.001
Diabetes=yes	HGI	443	68 (15.3)	0.98 (0.85~1.12)			-		
cerebrovascular disease=no	HGI	665	76 (11.4)	0.95 (0.82~1.1)			-		0.409
cerebrovascular disease=yes	HGI	320	81 (25.3)	0.79 (0.62~1)		-	-		
use insulin=no	HGI	368	45 (12.2)	0.56 (0.33~0.95)	-	-			0.019
use insulin=yes	HGI	617	112 (18.2)	0.91 (0.8~1.03)			-		
					0.25	0.50 Effe	1.0 ct(95%C	2.0 I)	4.0

Supplementary Fig.1a Forest plot of subgroup analysis 30 days mortality analysis with HGI classification in CHF patients. HGI: haemoglobin glycation index; CHF: congestive heart failure CI: confidence interval; HR: hazard ratio.

Subgroup	Variable	Total	Event (%)	HR (95%CI)		P for interaction
Age≥45	HGI	76	9 (11.8)	0.75 (0.34~1.64)		0.829
Age<45	HGI	909	209 (23)	0.91 (0.82~1)		=
Gender=male	HGI	579	107 (18.5)	0.85 (0.74~0.98)	4	0.633
Gender=female	HGI	406	111 (27.3)	1 (0.86~1.16)		+
Race=1	HGI	609	121 (19.9)	0.97 (0.83~1.12)		0.306
Race=2	HGI	97	20 (20.6)	0.88 (0.62~1.27)		
Race=3	HGI	52	8 (15.4)	0.21 (0.04~0.98)		_
Race=4	HGI	227	69 (30.4)	0.92 (0.76~1.1)	-	-
Diabetes=no	HGI	542	125 (23.1)	0.66 (0.5~0.88)		- 0.008
Diabetes=yes	HGI	443	93 (21)	0.97 (0.87~1.09)		-
cerebrovascular disease=no	HGI	665	105 (15.8)	0.95 (0.83~1.08)		0.609
erebrovascular disease=yes	HGI	320	113 (35.3)	0.83 (0.68~1.01)	-	•
use insulin=no	HGI	368	64 (17.4)	0.74 (0.47~1.14)		0.131
use insulin=yes	HGI	617	154 (25)	0.92 (0.83~1.03)		-
				0.0	044 0.088 0.177 0.354 0.70 Effect(95%CI)	7 1.410

Supplementary Fig.1b Forest plot of subgroup analysis 90 days mortality analysis with HGI classification in CHF patients. HGI: haemoglobin glycation index; CHF: congestive heart failure CI: confidence interval; HR: hazard ratio.

Age≥45 HGI Age<45 HGI Gender=male HGI Gender=female HGI Race=1 HGI Race=2 HGI Race=3 HGI	76 909 579 406 609 97	11 (14.5) 291 (32) 157 (27.1) 145 (35.7) 183 (30) 28 (28.9)	1.02 (0.72~1.45) 0.97 (0.89~1.06) 0.97 (0.87~1.08) 1.01 (0.89~1.15) 1.02 (0.91~1.14)	-	*	0.728
Gender=male HGI Gender=female HGI Race=1 HGI Race=2 HGI	579 406 609 97	157 (27.1) 145 (35.7) 183 (30)	0.97 (0.87~1.08) 1.01 (0.89~1.15) 1.02 (0.91~1.14)		* * *	
Gender=female HGI Race=1 HGI Race=2 HGI	406 609 97	145 (35.7) 183 (30)	1.01 (0.89~1.15) 1.02 (0.91~1.14)		*	
Race=1 HGI Race=2 HGI	609 97	183 (30)	1.02 (0.91~1.14)		+	
Race=2 HGI	97	. ,			-	
		28 (28 9)				0.19
Race=3 HGI		()	1.04 (0.83~1.3)			
	52	9 (17.3)	0.49 (0.18~1.35) —			,
Race=4 HGI	227	82 (36.1)	0.95 (0.81~1.12)			
Diabetes=no HGI	542	166 (30.6)	0.88 (0.69~1.13)	-		0.273
Diabetes=yes HGI	443	136 (30.7)	1.02 (0.93~1.11)		-	
cerebrovascular disease=no HGI	665	160 (24.1)	1.01 (0.92~1.12)		-	0.383
cerebrovascular disease=yes HGI	320	142 (44.4)	0.87 (0.73~1.04)		-	
use insulin=no HGI	368	95 (25.8)	1.19 (0.83~1.7)			0.497
use insulin=yes HGI	617	207 (33.5)	0.98 (0.9~1.07)		-	

Supplementary Fig.1c Forest plot of subgroup analysis 365 days mortality analysis with HGI classification in CHF patients. HGI: haemoglobin glycation index; CHF: congestive heart failure CI: confidence interval; HR: hazard ratio.

Figure Legends

Supplementary Figure.1 a Forest plot of subgroup analysis 30 days mortality analysis with HGI classification in CHF patients. b Forest plot of subgroup analysis 90 days mortality analysis with HGI classification in CHF patients. c. Forest plot of subgroup analysis 365 days mortality analysis

with HGI classification in CHF patients.