



## Supplementary material

### *Alfabetización sanitaria y resultados de salud en pacientes muy ancianos con insuficiencia cardiaca*

**Table 1 of the supplementary material**

Hazard Ratios (95%CI) of 12-month All-cause Mortality According to Baseline Characteristics of the Study Participants

		HR (95%CI)
Age, y	< 85	1 (Ref.)
	≥ 85	1.46 (1.11-1.91)
Sex	Women	1 (Ref.)
	Men	1.24 (0.95-1.63)
Treatment group	Intervention	1 (Ref.)
	No intervention	1.22 (0.94-1.60)
Hospital	Number 1	1 (Ref.)
	Number 2	1.54 (0.93-2.56)
	Number 3	1.31 (0.80-2.14)
	Number 4	0.77 (0.42-1.41)
	Number 5	1.09 (0.71-1.67)
	Number 6	0.84 (0.50-1.42)
NYHA functional grade	I-II	1 (Ref.)
	III-IV	1.16 (0.89-1.51)
Left ventricular ejection fraction	< 45%	1 (Ref.)
	≥ 45%	1.15 (0.89-1.51)
Atrial fibrillation	No	1 (Ref.)
	Yes	1.14 (0.88-1.49)
Serum hemoglobin (mg/dL)		0.94 (0.89-1.00)
Serum creatinine (mg/dL)		1.33 (1.09-1.63)
Depression	No	1 (Ref.)
	Mild	1.16 (0.84-1.61)
	Severe	1.40 (0.92-2.13)
Charlson Index		1.12 (1.05-1.19)
Mini-mental state examination		0.97 (0.96-0.99)
Katz index		1.21 (1.12-1.30)
Hospitalization for heart failure in last year	No	1 (Ref.)
	Yes	1.25 (0.96-1.62)
Educational level	Unable to read/No education	1 (Ref.)
	Less than primary	0.92 (0.67-1.26)
	Primary or higher	1.00 (0.72-1.41)
Heart failure knowledge score		1.05 (1.00-1.11)
Heart failure self-care score		1.00 (0.98-1.02)

95%CI, 95% confidence interval; HR, hazard ratio; NYHA, New York Heart Association.

**Table 2 of the supplementary material**

Hazard Ratios (95%CI) of 12-month All-cause Mortality According to Tertiles of Baseline Health Literacy, Stratified by Clinical Variables

	Health literacy			P-value for interaction
	Lowest tertile (n = 182)	Second tertile (n = 188)	Highest tertile (n = 186)	
<b>Age</b>				
< 85 y				.844
Deaths, No.	27	24	21	
HR (95%CI)	1 (Ref.)	0.87 (0.45-1.67)	0.95 (0.47-1.92)	
≥ 85 y				
Deaths	34	34	49	
HR (95%CI)	1 (Ref.)	0.86 (0.48-1.53)	1.11 (0.62-1.98)	
<b>NYHA grade</b>				
<i>I-II</i>				.276
Deaths, No.	28	29	52	
HR (95%CI)	1 (Ref.)	1.02 (0.57-1.83)	1.38 (0.79-2.42)	
<i>III-IV</i>				
Deaths	32	29	18	
HR (95%CI)	1 (Ref.)	0.88 (0.47-1.67)	0.67 (0.32-1.43)	
<b>Charlson comorbidity index</b>				
< 3				.613
Deaths, No.	19	15	29	
HR (95%CI)	1 (Ref.)	0.94 (0.40-2.18)	1.20 (0.54-2.67)	
≥ 3				
Deaths, No.	42	43	41	
HR (95%CI)	1 (Ref.)	0.76 (0.47-1.24)	0.83 (0.50-1.40)	
<b>Left ventricular ejection fraction</b>				
≥ 45%				.581
Deaths, No.	35	39	43	
HR (95%CI)	1 (Ref.)	1.02 (0.60-1.74)	1.18 (0.68-2.05)	
< 45 %				
Deaths, No.	18	14	16	
HR (95%CI)	1 (Ref.)	0.51 (0.19-1.41)	0.62 (0.21-1.82)	
<b>Depression</b>				
<i>No</i>				.577
Deaths, No.	35	37	36	
HR (95%CI)	1 (Ref.)	0.79 (0.46-1.35)	0.93 (0.52-1.67)	
<i>Yes</i>				
Deaths, No.	24	18	31	
HR (95%CI)	1 (Ref.)	0.57 (0.27-1.18)	0.86 (0.45-1.67)	
<b>Cognitive impairment</b>				
<i>Yes (MMSE &lt; 22)</i>				.682
Deaths, No.	33	21	26	
HR (95%CI)	1 (Ref.)	0.64 (0.32-1.26)	0.81 (0.39-1.66)	
<i>No (MMSE ≥ 22)</i>				

Deaths, No.	27	33	41		
HR (95%CI)	1 (Ref.)	0.73 (0.41-1.30)	0.85 (0.48-1.52)		
	<b>Health literacy</b>				
	Lowest tertile (n = 207)	Second tertile (n = 195)	Highest tertile (n = 154)	P- value for interaction	
<b>Hospitalization for HF in the last year</b>					
<i>No</i>					
Deaths, No.	34	25	42	.477	
HR (95%CI)	1 (Ref.)	0.75 (0.42-1.32)	1.02 (0.59-1.77)		
<i>Yes</i>					
Deaths, No.	27	33	28		
HR (95%CI)	1 (Ref.)	1.05 (0.56-1.97)	0.79 (0.40-1.53)		
<b>Educational level</b>					
<i>Unable to read or no formal education</i>					
Deaths, No.	26	22	22	.225	
HR (95%CI)	1 (Ref.)	0.95 (0.48-1.87)	0.73 (0.34-1.55)		
<i>Less than primary education</i>					
Deaths, No.	22	21	24		
HR (95%CI)	1 (Ref.)	0.81 (0.41-1.60)	0.92 (0.45-1.88)		
<i>Primary education or above</i>					
Deaths, No.	12	13	24		
HR (95%CI)	1 (Ref.)	0.76 (0.29-2.02)	1.12 (0.45-2.77)		

Hazard ratios (95%CI) of 12-month All-cause Mortality According to Tertiles of Baseline Health

Literacy, Stratified by Clinical Variables

95%CI, 95% confidence interval; HF, heart failure; HR, hazard ratio; MMSE, mini-mental state examination; NYHA, New York Heart Association functional class.

Analyses were adjusted for age (< 85, ≥ 85 years), sex (male, female), treatment group (intervention, no intervention), hospital (1, 2, 3, 4, 5, 6), NYHA grade (I-II, III-IV), left ventricular ejection fraction (< 45, ≥ 45%), atrial fibrillation (yes, no), serum hemoglobin (mg/dL), serum creatinine (mg/dL), depression (no, mild, severe), Katz index (continuous), Charlson index (continuous), depression (yes, no), MMSE (< 22, ≥ 22), hospitalization for HF in last year (yes, no), and education (unable to read or no formal education, less than primary, primary education or above). Stratification variables were excluded from the models.