

Cost-Effectiveness of the Self-Care Management System for Heart Failure

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Supplementary File

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Supplementary Methods

Propensity matching

A logistic regression model was developed to make the PS for the induction of the self-management program with 19 baseline variables (age, number of prior hospitalizations, living alone, atrial fibrillation or flutter, implantable cardioverter defibrillator, dementia, left ventricular ejection fraction <40%, brain natriuretic peptides> 235 pg/ml as a median value, estimated glomerular filtration rate < 30 ml/min/1.73 m², serum potassium >4.3 mEq/L as a median value, serum albumin < 3.5 g/dL, hemoglobin < 13g/dL, and the use of beta-blocker use, angiotensin converting enzyme inhibitor or angiotensin 2 receptor blocker, loop diuretics, tolvaptan, inotropic agent, and calcium antagonist). The c-statistics were 0.748. See more details in Nakane E, et al. 1

References of the supplementary file

1. Nakane E, Kato T, Tanaka N, Kuriyama T, Kimura K, Nishiwaki S, et al. Association of the induction of a self-care management system with 1-year outcomes in patients hospitalized for heart failure. *J Cardiol* 2021; 77: 48-56.

Supplementary Figure legends

Supplementary Figure. (**A**) The HF point self-care assessment sheet: the first page for patient instruction, (**B**) the second page. (**C**) The instruction for clinic and outpatient. (**D**) The interaction between clinics, hospitals, and patients. AF, atrial fibrillation; ER, emergency department; HF, heart failure.

Instruction for Self-care Management

ID:
Name:
Record the status of your body every day and use it to manage heart failure. This record will be helpful in treating you. Be sure to show it to your doctor when you visit.
Date (Day/Month):
Ideal water intake per day: ml
Ideal body weight in the morning: kg
If your body weight <u>exceeds kg</u> , you should take <u>tablets of</u> Furosemide (20mg).
If your body weight <u>exceeds</u> <u>kq</u> , you should limit the water intake more strictly.
If your body weight <u>exceeds kq</u> , you should visit or consult a doctor about the increase in body weight.

Supplementary Figure. (B)

Heart failure management record form

Month/Day		/ /			/		/		/		/		/		
Day of the week		Mon		Tue		Wed		Thu		Fri		Sat		Sun	
Body weight(kg) If BW exceeds the limit, check 3points		3 P	0 P	3 P	0 P	3 P	0 P	3 P	0 P	3 P	0 P	3 P	0 P	3 P	0 P
Blood pressure(mmHg)		/		/		/		/		/		/		/	
HR(bpm)															
120 or mor:4	P	4 P	0 P	4 P	0 P	4 P	0 P	4 P	0 P	4 P	0 P	4 P	0 P	4 P	0 P
Dyspnea at rest		Υ	N	Υ	N	Υ	N	Υ	N	Υ	N	Υ	N	Υ	N
		5 P	0 P	5 P	0 P	5 P	0 P	5 P	0 P	5 P	0 P	5 P	0点	5点	0点
	Shortness of breath when going out, bathing, climbing stairs	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Υ	N
Committee	Edema gets worse	Υ	N	Υ	N	Υ	N	Υ	N	Υ	N	Υ	N	Υ	N
Symptoms	Cough	Υ	N	Υ	N	Υ	N	Υ	N	Υ	N	Υ	N	Υ	N
	Loss of appetite	Υ	N	Υ	N	Υ	N	Υ	N	Υ	N	Υ	N	Υ	N
	One point if there is at least one Y.	1 P	0 P	1P	0 P	1 P	0 P	1 P	0 P	1P	0 P	1P	0 P	1 P	0 P
Points (Summation)															

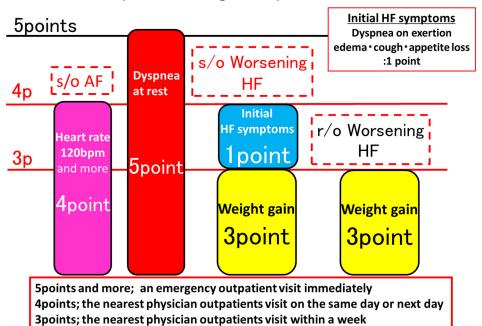
I took the medicine	breakfast,						
(after)	lunch,						
(aiter)	dinner						
Water intake (mL)							

lf	oints are
	points or more \rightarrow you go to ER immediately
1] Hospital, outpatient (tel no.) Nighttime or holidays (tel. no.)
	P → you go to unscheduled visit on today or tomorrow
	P → you go to unscheduled visit within a week
	Home doctor or [] hospital

Name [institution]

Supplementary Figure. (C)

The specific setting of HF point



Supplementary Figure. (D)

