

Heart Failure: Indicators and Standards in The Danish National Indicator Project

Indicator domain	Indicator	Type	Standard
Echocardiography	1. Proportion of patients who undergo echocardiography within 6 months before and no later than 7 weekdays after admission/initiation of outpatient treatment	Process	$\geq 90\%$
New York Heart Association Classification (NYHA-classification)	2. Proportion of patients who undergo NYHA classification at the first discharge/first outpatient visit or within the first 12 week of their course of illness	Process	$\geq 90\%$
Medicamentary treatment	3a. Proportion of patients with reduced systolic function ($LVEF^1 \leq 40\%$) who are treated/start treatment/for whom treatment is attempted with: ACE-inhibitor/ ATII-receptor antagonist, no later than 8 weeks after admission/first outpatient visit	Process	$\geq 90\%$
	3b. Proportion of patients with reduced systolic function ($LVEF \leq 40\%$) who are treated/start treatment/for whom treatment is attempted with: Beta blocker, no later than 12 weeks after admission/ first outpatient visit	Process	$\geq 80\%$
	3c. Proportion of patients with reduced systolic function ($LVEF \leq 35\%$) who are treated/start treatment/for whom treatment is attempted with: Aldosterone antagonist, no later than 12 weeks after admission/first outpatient visit. It is observed if the medicamentary treatment a. and b. will change the NYHA class	Process	$\geq 25\%$
Exercise training	4. Proportion of patients with reduced systolic function ($LVEF < 40\%$) who start an individualized supervised exercise training by a physiotherapist in a hospital setting no later than 12 weeks after admission/initiation of outpatient treatment, or who are referred to training in a community setting after consultation with a physiotherapist in a hospital setting	Process	$\geq 30\%$
Patient education	5. Proportion of patients ($LVEF \leq 40\%$) who initiate an individualized patient education (nutrition, exercise training, understanding of symptoms, medicine and disease, risk factors) during follow-up in a heart failure clinic/during admission	Process	$\geq 80\%$
Readmissions	6. Proportion of patients who are readmitted within 4 weeks after discharge or the first outpatient control/visit	Outcome	$\leq 10\%$
Mortality ²	7. Proportion of patients who die within 1 year after discharge/initiation of outpatient treatment	Outcome	$\leq 25\%$

¹Left ventricular ejection fraction.

²Diagnosis and inclusion criteria, and data definitions related to the indicators are described in "Datadefinitioner for NIP-hjerteinsufficiens, version 3.0, 25. juni 2010" (Danish only)

³Total mortality. In comparisons over time or between departments adjustments will be made for possible differences in the distribution of a number of prognostic factors

