

ガイドラインに準じた心不全治療は どれだけの患者を救えるか

Congestive Heart Failure

Potential impact of optimal implementation of evidence-based heart failure therapies on mortality

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Am Heart J 2011;161:1024-1030.
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患者の登録は、AHAの統計に元に行われた。

The number of patients with HF in the United States was based on data selected for the 2010 American Heart Association Heart Disease and Stroke Statistics Update (Circulation 2010;121:e46-215.)

患者が受けている治療については、下記の実態調査を元に上記の患者統計から算出された。

外来患者→IMPROVE HF (Circ Heart Fail 2008;1:98-106.)

入院患者→Get With The Guidelines-Heart Failure.

(J Am Coll Cardiol 2007;50:768-77.)

各治療法における重要論文からNumber Need to Treatが引用され、それに基づいて、治療を行なっていれば防げたであろう死亡数が算出された

アメリカ合衆国における心不全の有病者率 580万人/3億人(=2%)

のうち HFrEFは45-48%、年間死亡者数は4.8%

**ホスピス、VAD導入、心移植待機中の患者は除外された

→2,784,000人が解析の対象

Variable	IMPROVE HF (LVEF <35%) (n = 15177)	OPTIMIZE-HF (LVEF <40%) (n = 20188)	OMYD-HF (LVEF <40%) (n = 55093)
Age (y), mean	68.7	70.4	68.6
Female sex (%)	29.0	32.0	36.1
Hypertension (%)	67.7	66.2	71.8
POB (%)	11.1	13.7	11.5
CAD (%)	68.2	54.0	52.3
CVA/TIA (%)	11.8	13.7	13.3
Depression	9.6	9.2	8.2
Diabetes (%)	34.0	39.2	40.1
COPD (%)	16.5	24.8	22.2
Creatinine, mg/dL (median)	1.2	1.4	1.2

NYHA心機能分類 I :30%, II :40%, III :25%, IV :5%

2013 ACCF/AHA guideline

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禁忌がないかぎり、ACE阻害薬またはARBは全てのHFrEFに処方されるべきである。

ACE inhibitors are recommended in patients with HFrEF and current or prior symptoms, unless contraindicated, to reduce morbidity and mortality. (Class I, Level of Evidence: A)

ARBs are recommended in patients with HFrEF with current or prior symptoms who are ACE inhibitor intolerant, unless contraindicated, to reduce morbidity and mortality. (Class I, Level of Evidence: A)

2013 ACCF/AHA guideline

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禁忌がないかぎり、β遮断薬は全てのHFrEFに処方されるべきである。

Use of 1 of the 3 beta blockers proven to reduce mortality (e.g., bisoprolol, carvedilol, and sustained-release metoprolol succinate) is recommended for all patients with current or prior symptoms of HFrEF, unless contraindicated, to reduce morbidity and mortality. (Class I, Level of Evidence: A)

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禁忌がないかぎり、ACE阻害薬またはARBは全てのHFrEFに処方されるべきである。

Aldosterone receptor antagonists (or mineralocorticoid receptor antagonists) are recommended in patients with NYHA class II-IV HF and who have LVEF of 35% or less, unless contraindicated, to reduce morbidity and mortality. Patients with NYHA class II HF should have a history of prior cardiovascular hospitalization or elevated plasma natriuretic peptide levels to be considered for aldosterone receptor antagonists (Class I, Level of Evidence: A)

Aldosterone receptor antagonists are recommended to reduce morbidity and mortality following an acute MI in patients who have LVEF of 40% or less who develop symptoms of HF or who have a history of diabetes mellitus, unless contraindicated. (Class I, Level of Evidence: B)