#### **General Inclusion Criteria**

All face-to-face office visits with
physician, physicians' assistant, or nurse
practitioner occurring during the sampling
period where at least two visits had a
documented diagnosis of heart failure
(see Appendix A.1, and A.2)
AND
Patient is 18 years or older at the beginning
of the measurement period
±

[HFCONFIRMED] = 1 (see Appendix A.1 and A.2) **AND** Beginning of measurement period - [DATEOFBIRTH]  $\geq$  18

Physician Performance Measures (Measures) and related data specifications, developed by the Physician Consortium for Performance Improvement<sup>TM</sup> (the Consortium), are intended to facilitate quality improvement activities by physicians.

These Measures are intended to assist physicians in enhancing quality of care. Measures are designed for use by any physician who manages the care of a patient for a specific condition or for prevention. These performance Measures are not clinical guidelines and do not establish a standard of medical care. The Consortium has not tested its Measures for all potential applications. The Consortium encourages the testing and evaluation of its Measures.

Measures are subject to review and may be revised or rescinded at any time by the Consortium. The Measures may not be altered without the prior written approval of the Consortium. Measures developed by the Consortium, while copyrighted, can be reproduced and distributed, without modification, for noncommercial purposes, e.g., use by health care providers in connection with their practices. Commercial use is defined as the sale, license, or distribution of the Measures for commercial gain, or incorporation of the Measures into a product or service that is sold, licensed or distributed for commercial gain. Commercial uses of the Measures require a license agreement between the user and American Medical Association, on behalf of the Consortium. Neither the Consortium nor its members shall be responsible for any use of these Measures.

#### THE MEASURES ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND

© 2006 American Medical Association. All Rights Reserved

Limited proprietary coding is contained in the Measure specifications for convenience. Users of the proprietary code sets should obtain all necessary licenses from the owners of these code sets. The AMA, the Consortium and its members disclaim all liability for use or accuracy of any Current Procedural Terminology (CPT<sup>®</sup>) or other coding contained in the specifications.

#### THE SPECIFICATIONS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND.

CPT<sup>®</sup> contained in the Measures specifications is copyright 2005 American Medical Association. LOINC<sup>®</sup> copyright 2004 Regenstrief Institute, Inc. This material contains SNOMED Clinical Terms<sup>®</sup> (SNOMED CT<sup>®</sup>) copyright 2002-2004 College of American Pathologists. All rights reserved

#### Measure Owner Designation

- ♣ AMA/PCPI is the measure owner
- ▲CMS is the measure owner
- NCQA is the measure owner

#### **HF Clinical Performance Measures**

## LVF Assessment (\*HF-1): Percentage of patients with quantitative or qualitative results for LVF assessment

#### **Denominator:** All patients with $HF \ge 18$ years of age

Denominator Inclusions

All patients (each unique patient identifier<br/>equals one case in the denominator)Hmeeting the inclusion criteria (page 1)A

Each unique [PATIENTID] = one case in the denominator **AND** Meeting inclusion criteria (page 1)

**Denominator Exclusions** 

None

None

#### Numerator: Patients with quantitative or qualitative results for LVF assessment recorded

Numerator Inclusions

Patients who have quantitative or qualitative results of LVF assessment recorded (see Appendix B.1, B.2, B.3) [HFLVFRESULT] = 1 (see Appendix B.1, B.2, B.3)

Left Ventricular Function (LVF) Testing (<sup>A</sup>HF-2): Percentage of patients with LVF testing during the current year for patients hospitalized with a principal diagnosis of HF during the current year

## Denominator: All patients with a principal diagnosis of $HF \ge 18$ years of age hospitalized during the measurement period

**Denominator Inclusions** 

All patients (each unique patient identifier	Each unique [PATIENTID] = one case in
equals one case in the denominator)	the denominator
meeting the inclusion criteria (page 1) and	AND
who were hospitalized during the	Meeting inclusion criteria (page 1)
measurement period for HF	AND
(see Appendix C.1)	[HFHOSPITAL] =1
	(see Appendix C.1)

Denominator Exclusions (Exclusions only applied if the patient did not receive LVF testing during the measurement period if patient was hospitalized for HF)

	1
Any visit where:	[HFLVFYEAR] = 3
Excluded for Medical Reason(s)	OR
Excluded for Patient Reason(s)	[HFLVFYEAR] = 4
(see Appendix D.1)	(see Appendix D.1)

### Numerator: Patients with LVF testing during the measurement period

Numerator Inclusions

Patients who had LVF testing during the measurement period (see Appendix C.1, C.2, C.3) [HFLVFYEAR] = 1 (see Appendix C.1, C.2, C.3)

## Weight Measurement (\*HF-3): Percentage of HF patient visits with weight measurement recorded

### Denominator: All patient visits for patients with $HF \ge 18$ years of age

Denominator Inclusions

Each [HFPCVISITDATE] = one case in
the denominator
AND
Meeting inclusion criteria (page 1)
AND
[HFPCINVALID] = 0

Denominator Exclusions (Exclusions only applied if the patient weight measurement was not recorded)

Each HF visit where: Excluded for Medical Reason(s):

• Patient visits in which physician was unable to weigh patient (see Appendix E.1) Each [HFPCVISITDATE] WITH [HFWEIGHT] = 3 (see Appendix E.1)

### Numerator: Patient visits with weight measurement recorded

Numerator Inclusions

Patient visits with a weight measurement recorded	Each [HFPCVISITDATE] WITH
(see Appendix F.1, F.2)	[HFWEIGHT] = 1 (see Appendix F.1, F.2)

# Patient Education (\*HF-5): Percentage of patients who were provided with patient education on disease management and health behavior changes during one or more visit(s)

#### Denominator: All patients with $HF \ge 18$ years of age

Denominator Inclusions	
All patients (each unique patient identifier	Each unique [PATIENTID] = one case in
equals one case in the denominator)	the denominator
meeting the inclusion criteria (page 1)	AND
	Meeting inclusion criteria (page 1)

**Denominator Exclusions** 

None

None

### Numerator: Patients provided with patient education during one or more visit(s)

Numerator Inclusions

Patients provided with patient during one or more visit(s) (see Appendix G.1, G.2) [HFPTEDUCATION] = 1 (see Appendix G.1, G.2)

Beta-Blocker Therapy (\*HF-6): Percentage of patients who were prescribed beta-blocker therapy

# Denominator: All patients with $HF \ge 18$ years of age with LVSD defined as LVEF < 40% or with moderately or severely depressed left ventricular systolic function

Denominator Inclusions

All patients (each unique patient identifier	Each unique [PATIENTID] = one case in
equals one case in the denominator)	the denominator
meeting the inclusion criteria (page 1) and	AND
who also have LVSD (defined as LVEF	Meeting inclusion criteria (page 1)
< 40% or with moderately or severely	AND
depressed left ventricular systolic function)	[HFCADLVSD] = 1
(see Appendix H.1, H.2, H.3)	(see Appendix H.1, H.2, H.3)
`	

Denominator Exclusions (Exclusions only applied if the patient did not receive beta-blocker therapy)

Any visit where:	[HFBBLOCKDRUG] = 3
Excluded for Medical Reason(s)	OR
Excluded for Patient Reason(s)	[HFBBLOCKDRUG] = 4
Excluded for System Reason(s)	OR
(see Appendix I.1, I.2, I.3)	[HFBBLOCKDRUG] = 5
	(see Appendix I.1, I.2, I.3)

### Numerator: Patients who were prescribed beta-blocker therapy

Numerator Inclusions

Patients who were prescribed beta-blocker therapy (see Table 1 and Appendix H.4) [HFBBLOCKDRUG] = 1 (see Table 1 and Appendix H.4)

# ACE Inhibitor/ARB Therapy (\*HF-7): Percentage of patients who were prescribed ACE inhibitor or ARB therapy

## Denominator: All patients with HF $\geq$ 18 years of age with LVSD defined as LVEF < 40% or with moderately or severely depressed left ventricular systolic function

#### **Denominator Inclusions**

All patients (each unique patient identifier	Each unique [PATIENTID] = one case in
equals one case in the denominator)	the denominator
meeting the inclusion criteria (page 1) and	AND
who also have LVSD (defined as LVEF	Meeting inclusion criteria (page 1)
< 40% or with moderately or severely	AND
depressed left ventricular systolic function)	[HFCADLVSD] = 1
(see Appendix J.1, J.2, J.3)	(see Appendix J.1, J.2, J.3)

Denominator Exclusions (Exclusions only applied if the patient did not receive ACE inhibitor or ARB therapy)

Any visit where: Excluded for Medical Reason(s) Excluded for Patient Reason(s) Excluded for System Reason(s) (see Appendix K.1, K.2, K.3) [HFACEARBDRUG] = 3 OR [HFACEARBDRUG] = 4 OR [HFACEARBDRUG] = 5 (see Appendix K.1, K.2, K.3)

### Numerator: Patients who were prescribed ACE inhibitor or ARB therapy

Numerator Inclusions

Patients who were prescribed ACE inhibitor or ARB therapy (see Tables 2, 3 and Appendix J.4)

[HFACEARBDRUG] = 1 (see Tables 2, 3 and Appendix J.4)

Warfarin Therapy for Patients with Atrial Fibrillation (\*HF-8): Percentage of patients with paroxysmal or chronic atrial fibrillation who were prescribed warfarin therapy

## Denominator: All patients with heart failure $\geq$ 18 years of age with paroxysmal or chronic atrial fibrillation

Denominator Inclusions	
All patients (each unique patient identifier	Each unique [PATIENTID] = one case in
equals one case in the denominator)	the denominator
meeting the inclusion criteria (page 1) and	AND
who also have paroxysmal or chronic atrial	Meeting inclusion criteria (page 1)
fibrillation (see Appendix L.1)	AND
	[HFAFIB] = 1 (see Appendix L.1)

Denominator Exclusions (Exclusions only applied if the patient did not receive warfarin therapy)

Any visit where:	[HFWARFDRUG] = 3
Excluded for Medical Reason(s)	OR
Excluded for Patient Reason(s)	[HFWARFDRUG] = 4
Excluded for System Reason(s)	OR
(see Appendix M.1, M.2, M.3)	[HFWARFDRUG] = 5
	(see Appendix M.1, M.2, M.3)

### Numerator: Patients who were prescribed warfarin therapy

Numerator Inclusions

Patients who were prescribed warfarin
therapy
(see Table 4 and Appendix L.2)

[HFWARFDRUG] = 1 (see Table 4 and Appendix L.2)