

**Algorithm(s)**

No changes.

**Annotations**

- 2 ICON studies were added to the discussion of NTproBNP (N- terminal pro-B-type natriuretic peptide N- terminal pro-B-type natriuretic peptide). Cardiac troponin information was added, citing Kociol 2010.
- 12 Cardiorenal syndrome information was added, citing Bagshaw 2010, Davenport 2010, McCullough 2010, Ronco 2008.
- Also added information on the workup for treatment of anemia, citing Stamos 2010, Anker 2009, Anand 2008, Dickstein 2008, Groenveld 2008, Okonko 2008, Toblli 2007.
- 13 Calcium channel blockers were addressed. Section on non-dihydropyridine blockers added references Goldstein 1991, Setaro 1990, Hung 2002, Gibson 1990. Section on dihydropyridine added reference Elkayam 1990.
- Updates were made to the Diuretics section, especially in regard to labs. Cited Felker 2011.
- Work group clarified that evidence does not currently support the use of nesiritide.
- Andromeda study was cited: Kober 2008.
- 14 Exercise instruction as part of a comprehensive heart failure program was supported by reference Davies 2010.
- Recommendation for sodium intake was refined from 3,000 mg per day to 2,000 mg.
- Education and counseling section was re-titled as Self-Management and Treatment Adherence, with several updates: Heart Failure Society of America 2008, Driscoll 2008, Evangelista 2010, Philbin 1999.
- Telemonitoring programs were assessed, citing Chadhry 2010 and Ferrante 2010.
- 47 Additional language to contextualize the current use of ventricular assist devices was added, with Wilson 2009.

**Aims & Measures**

Removed a measure which invoked a quality of life measure.

**Appendices**

New Appendix C, ICSI Shared Decision Making Model, was added.

**Introduction**

Language was updated to describe the New York Heart Association (NYHC) classification of staging the severity of heart failure.

**Order Sets**

Order Sets were incorporated into the guideline:

Emergent Orders for Heart Failure

Admission for Heart Failure

Discharge for Heart Failure