

## Adults with Systolic Heart Failure 2015

<u>Eligible Population</u>	<u>Key Components</u>	<u>Recommendation and Level of Evidence</u>
Adults with suspicion of left-ventricular systolic dysfunction, including heart failure	Evaluation	<p><u>Initial assessment should include:</u></p> <ul style="list-style-type: none"> <li>• Thorough history and physical examination [C], including depression screening, and assessment for coronary artery disease and risk factors.</li> <li>• Testing includes: chest X-ray, 12-lead electrocardiogram, lipid profile, CBC, electrolytes, calcium, magnesium, BUN, creatinine, blood glucose, liver function tests, TSH, urinalysis, and echocardiography with Doppler [C]</li> <li>• BNP is useful for diagnosis, and not for serial monitoring</li> <li>• Serial monitoring should include: weight, volume status, electrolytes, renal function and activity tolerance</li> </ul>
Adults diagnosed with left-ventricular systolic dysfunction, including heart failure	Management	<p><u>Recommended for routine use:</u></p> <ul style="list-style-type: none"> <li>• ACE inhibitors in all patients, unless contraindicated' [A]</li> <li>• Beta-blockade using carvedilol, sustained-release metoprolol, bisoprolol in all stable patients, unless contraindicated [A]</li> <li>• Consider referral for evaluation for implantable defibrillator, ventricular assist device or transplant in patients with LVEF&lt;35%, NYHA Class II-IV patients and those with worsening CHF</li> <li>• Consider referral for biventricular pacemaker for patients with symptomatic heart failure and QRS duration &gt; 120 msec</li> <li>• Consider referral of complex patients to an advanced heart failure management program</li> <li>• Vaccination against influenza and pneumococcal</li> </ul> <p><u>Recommended for use in select patients:</u></p> <ul style="list-style-type: none"> <li>• Diuretics and sodium restriction for evidence of fluid retention [A]</li> <li>• Spironolactone for patients with symptoms of heart failure, preserved renal function (creatinine &lt; 2.0 in women; creatinine &lt; 2.5 in men) and normal serum potassium concentration [A]</li> <li>• Use ARBs in patients who cannot tolerate ACE inhibitors due to cough or angioedema [A]</li> <li>• Consider hydralazine and isosorbide dinitrate for patients who cannot tolerate ACE inhibitors or ARBs, or African-American patients who remain symptomatic despite therapy [A]</li> <li>• Digoxin should only be used for patients who remain symptomatic despite diuretics, ACE inhibitors and beta blockers[A]</li> </ul>
	Counseling and care management	<p><u>Engage patients in office-based care management and self-management:</u></p> <ul style="list-style-type: none"> <li>• Careful review of medication regimen with patient and caregivers at hospitalization or other changes in treatment</li> <li>• Daily self-monitoring of weight and adherence to recommended patient action plan</li> <li>• Recognition of symptoms and when to seek medical attention</li> <li>• Moderate dietary sodium restriction (e.g., 2,000-2,500 mg sodium/day)</li> <li>• Risk factor modification (regular exercise 5 times per week as tolerated [B]; smoking cessation; control of BP, DM, lipids)</li> <li>• Avoid excessive alcohol intake, illicit drug use, and the use of NSAIDS</li> <li>• Discuss goals of care, prognosis, advance directives, and palliative care.</li> </ul>
<p>Contraindications include: life-threatening adverse reactions (angioedema or anuric renal failure), pregnancy, hypotensive patients at immediate risk of cardiogenic shock, systolic blood pressure &lt; 80 mm Hg, serum creatinine &gt; 3 mg/dL, bilateral renal artery stenosis, or serum potassium &gt; 5.5 mmol/L. • Contraindications include patients with current or recent fluid retention history, unstable or poorly controlled reactive airway disease, symptomatic bradycardia or advanced heart block (unless treated with a pacemaker), or recent treatment with an intravenous positive inotropic agent</p>		