



National Cardiovascular Data Registry (NCDR®)

PINNACLE Registry®



Qualified Clinical Data Registry

Measures Specifications

NQS Domain: Effective Cli	nical Care Me	easure Type: Process, Proportional	
·	: Management of Chronic		
Conditions			
Measure Description	Percentage of Patients 18-75 years of	f age with PAD who were offered moderate-to-high	
	intensity statin.		
Numerator	Patients with a diagnosis of Poriphor	al Artony Disease that received a moderate (Fluvestatin	
Numerator	Patients with a diagnosis of Peripheral Artery Disease that received a moderate (Fluvastatin, Pravastatin, or Simvastatin) or high statin therapy (Atorvastatin or Rosuvastatin)		
Denominator	All patients aged 18 years and older with a history of Symptomatic Peripheral Artery Disease		
Exceptions and	Exceptions:		
exclusions of the	Documentation of medical reason(s) for not prescribing moderate or high intensity statin (eg,		
measure (if applicable)	allergy, intolerant, postural hypotension, other medical reasons)		
	Documentation of patient reason(s) for not prescribing moderate or high intensity statin (eg,		
	patient declined, other patient reasons)		
	Documentation of system reason(s) for not prescribing moderate or high intensity statin (eg,		
	financial reasons, other reasons attributable to the health care delivery system)		
Proportion measure	Yes		
scoring			
Data Source	EHR/Registry		
Rationale	2016 AHA/ACC Guideline on the Management of Patients With Lower Extremity Peripheral Arte Disease: A guideline-based program of pharmacotherapy to reduce cardiovascular ischemic events and limb-related events should be prescribed for each patient with PAD and is customize to individual risk factors, such as whether the patient also has diabetes mellitus. Treatment with a statin is recommended for all patients with PAD. Pharmacotherapy for the patient with PAD includes antiplatelet and statin agents and is customized to additional risk factors, such as whether the patient also has diabetes mellitus or hypertension.		
	Statin therapy improves both cardiovascular and limb outcomes in patients with PAD. Several studies have shown that statin therapy is highly beneficial in reducing both morbidity and mortality in such patients. One such study, looked at the effect of statin use and improvement of limb salvage after intervention for peripheral artery disease. In this study, a total of 488 patients were identified who underwent surgical/endovascular procedures between 2009 and 2010. 41% patients received statins, 56% received antiplatelets, 26% received oral anticoagulants, 9% required a major amputation, and 11% died during follow-up of up to 88 months. Of the 3 medications (statins, antiplatelet, oral anticoagulants), statins use was associated with improved survival and improved limb salvage. Another study looked at the relative benefit of higher statin dosing in patients with PAD with comparison of patients with low-or moderate-intensity statin dose on clinical outcomes in patients with PAD. The results showed that high intensity therapy was associated with improved survival and decreased major adverse cardiovascular events.		
	Source: https://www.ncbi.nlm.nih.gov/pubmohttps://www.ahajournals.org/doi/full		

^{*}The measures listed above are calculated based on the 1st performance rate, traditional (unless indicated differently under *Measure Type*) and are NOT risk adjusted. All measures listed do NOT include telehealth and are for Ambulatory Care: Clinician Office/Clinic care settings.

Updated on 01/01/2021

Meaningful Measure Area:		Measure Type: Intermediate Outcome, High Priority,	
	Management of Chronic	Proportional	
Conditions	<u></u>		
Measure Description	Proportion of patients with hypertension who had adequately controlled blood pressure		
Numerator	Number of patients with blood pressure of < 130/80 mmHg during the most recent office visit		
Denominator	Number of patients ≥ 18 years of age with hypertension in the past 24 months		
Exceptions and exclusions	Exclusions:		
of the measure (if	Pregnancy related hypertension		
applicable)			
Proportion measure	Yes		
scoring			
Data Source	EHR/Registry		
Rationale	EHR/Registry The most recent ACC/AHA Evidence Based November 2017 guidelines have suggested new blood pressure values for blood pressure stages. Patients who have been diagnosed with Stage 1 Hypertension who don't have multiple comorbidities are recommended nonpharmacologic therapy with reassessment in 3-6 months. However, patients who do have multiple comorbidities such as ASCVD or have an estimated 10-year CVD risk are recommended nonpharmacologic therapy and BP-lower medications. Patients who have been diagnosed with Stage 2 Hypertension BP>=140/90 are recommended nonpharmacologic therapy along with 2 BP-lower medications of different classes is recommended. A Literature search has shown how prevalent BP was in the United States, with implications of recommendations for antihypertensive medication and prevalence of BP above the treatment goal among U.S. adults using criteria from the 2017 ACC/AHA guideline and the JNC7. In this study, authors analyzed data from the 2011-2014 National Health and Nutrition Examination Survey (N=9623), with BP being measured 3 times following a standardized protocol and averaged. Based on the 2017 guidelines with this analyzed data from 2011-2014-the prevalence of hypertension among US adults was 45.6 (95% confidence interval [CI]: 43.6% to 47.6%) per the ACC/AHA guidelines and 31.9% (95% CI: 30.1% to 33.7%) per the JNC7 guidelines, respectively, and antihypertensive medication was recommended for 36.2% (95% CI: 34.2% to 38.2%) per ACC/AHA guidelines and 34.3% (95% CI: 32.5% to 36.2%) of US adults per JNC7 guidelines, respectively. This suggests that with the new guidelines in place-there is a substantial increase in the prevalence of hypertension, a small increase in the percentage of US adults recommended for antihypertensive medication and more intensive BP lowering for many adults taking antihypertensive medication. According to the most recent Pinnacle data 30% of patients who have blood pressure readings greater than or equal to 140 mm Hg systolic and/or 90 mmHg diastol		

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Updated on 01/01/2021

·	cation and Care Coordination ea: Management of Chronic	Measure Type: Process, Proportional, High Priority	
Measure Description	Percentage of patients aged >=18 years with a diagnosis of heart failure who were provided with self-care education on >=3 elements of education during >=1 visit within a 12-month period.		
Numerator	Patients who were provided with self-care education on three or more elements of education during one or more visits within a 12-month period. Elements include: 1. Weight monitoring, 2. Diet (Sodium Restriction), 3. Symptom Management, 4. Physical Activity, 5. Smoking Cessation, 6. Medication Instruction, 7. Prognosis/End of life issues, 8. Minimizing or avoiding use of NSAIDs or 9. Referral or visiting nurse of specific education or management programs		
Denominator	All patients aged 18 years and older with a diagnosis of heart failure who were seen at least once for any visit within a 12-month period		
Exceptions and exclusions of the measure (if applicable)	None		
Proportion measure	Yes		
scoring			
Data Source	EHR/Registry		
Rationale	The self-care regimen for patients with HF is complex and multifaceted. Patients need to understand how to their symptoms and weight fluctuations, restrict their sodium intake, take their medications as prescribed, as physically active. Education regarding these recommendations is necessary, albeit not always sufficient, to si improve outcomes. A systematic review of 35 educational intervention studies for patients with HF demonst education improved knowledge, self-monitoring, and medication adherence, time to hospitalization, and day hospital. Patients who receive in-hospital education have higher knowledge scores at discharge and 1 year la compared with those who did not receive in-hospital education. Dietary sodium restriction is commonly rece to patients with HF and is endorsed by many guidelines. The data on which this recommendation is drawn up however, are modest, and variances in protocols, fluid intake, measurement of sodium intake and compliant other clinical and therapeutic characteristics among these studies make it challenging to compare data and c definitive conclusions. 2013 ACCF/AHA Guideline for the Management of Heart Failure Patients with HF should receive specific education facilitate HF self-care (Class I: Level of Evidence: B) Sodium restriction is reasonable for patients with sympto to reduce congestive symptoms. (Class I: Level of Evidence: C) Exercise training (or regular physical activity) is recommended as safe and effective for patients with HF who are able to participate to improve functional st (Class I: Level of Evidence: A)		

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