

Coronary Artery Disease (CAD): Drug Therapy for Lowering LDL-Cholesterol (NQF 0074)

EMeasure Name	Coronary Artery Disease (CAD): Drug Therapy for Lowering LDL-Cholesterol	EMeasure Id	Pending
Version Number	1	Set Id	Pending
Available Date	No information	Measurement Period	January 1, 20xx through December 31, 20xx
Measure Steward	American Medical Association – Physician Consortium for Performance Improvement		
Endorsed by	National Quality Forum		
Description	Percentage of patients aged 18 years and older with a diagnosis of CAD who were prescribed a lipid-lowering therapy (based on current ACC/AHA guidelines).		
Measure scoring	Proportion		
Measure type	Process		
Rationale	Studies have demonstrated that active treatment with lipid-lowering therapy is associated with stabilization and regression of coronary atherosclerotic plaques and decreased incidence of clinical events. Recent clinical trials have further documented that LDL-lowering agents can decrease the risk of adverse ischemic events in patients with established CAD.		
Clinical Recommendation Statement	The LDL-C treatment goal is <100 mg/dl. Persons with established coronary heart disease (CHD) who have a baseline LDL-C ³ 130 mg/dl should be started on a cholesterol-lowering drug simultaneously with therapeutic lifestyle changes and control of nonlipid risk factors (National Cholesterol Education Program [NCEP]).		
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Please refer to the spreadsheet for this measure for detail regarding data criteria and code lists.

Population criteria

- **Initial Patient Population =**
 - AND: “Patient characteristic: birth date” (age) >= 18 years;
 - AND:
 - OR: “Diagnosis active: coronary artery disease includes MI”;
 - OR: “Procedure performed: cardiac surgery”;

- AND: ≥ 2 count(s) of:
 - OR: "Encounter: encounter outpatient"
 - OR: "Encounter: encounter nursing facility";
- **Denominator =**
 - AND: All patients in the initial patient population;
- **Numerator =**
 - AND:
 - OR: "Medication order: lipid lowering therapy";
 - OR: "Medication active: lipid lowering therapy";
- **Exclusions =**
 - OR: LAST "Laboratory test result: LDL laboratory test", value < 130 mg/dL, before or simultaneous to "Encounter: encounter outpatient" or "Encounter: encounter nursing facility" ≤ 1 year;
 - OR: "Medication allergy: lipid lowering therapy";
 - OR: "Medication adverse event: lipid lowering therapy";
 - OR: "Medication intolerance: lipid lowering therapy";
 - OR: "Medication not done: medical reason";
 - OR: "Medication not done: patient reason";
 - OR: "Medication not done: system reason";

Data criteria (QDS data elements)

- **Initial Patient Population =**
 - "Patient characteristic: birth date" using "birth date code list" before the beginning of the "measurement period";
 - "Diagnosis active: coronary artery disease includes MI" using "coronary artery disease includes MI code list grouping" before or simultaneously to "Encounter: encounter outpatient" OR "Encounter: encounter nursing facility";
 - "Procedure performed: cardiac surgery" using "cardiac surgery code list grouping" before or simultaneously to "Encounter: encounter outpatient" OR "Encounter: encounter nursing facility";
 - "Encounter: encounter outpatient" using "encounter outpatient code list" during the "measurement period";
 - "Encounter: encounter nursing facility" using "encounter nursing facility code list" during the "measurement period";
- **Denominator =**
 - All patients in the initial patient population;
- **Numerator =**
 - "Medication order: lipid lowering therapy" using "lipid lowering therapy code list" during the "measurement period";

- “Medication active: lipid lowering therapy” using “lipid lowering therapy code list” during the “measurement period”;
- **Exclusions =**
 - “Laboratory test result: LDL laboratory test” using “LDL laboratory test code list” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;
 - “Medication allergy: lipid lowering therapy” using “lipid lowering therapy code list” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;
 - “Medication adverse event: lipid lowering therapy” using “lipid lowering therapy code list” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;
 - “Medication intolerance: lipid lowering therapy” using “lipid lowering therapy code list” before or simultaneously to “Encounter: encounter outpatient” OR “Encounter: encounter nursing facility”;
 - “Medication not done: medical reason” using “medical reason code list” for “Medication order: lipid lowering therapy” OR “Medication active: lipid lowering therapy”;
 - “Medication not done: patient reason” using “patient reason code list” for “Medication order: lipid lowering therapy” OR “Medication active: lipid lowering therapy”;
 - “Medication not done: system reason” using “system reason code list” for “Medication order: lipid lowering therapy” OR “Medication active: lipid lowering therapy”;

Summary Calculation

Calculation is generic to all measures:

- Calculate the final denominator by adding all that meet denominator criteria.
- Subtract from the final denominator all that do not meet numerator criteria yet also meet exclusion criteria. Note some measures do not have exclusion criteria.
- The performance calculation is the number meeting numerator criteria divided by the final denominator.
- For measures with multiple patient populations, repeat this process for each patient population and report each result separately.
- For measures with multiple numerators, calculate each numerator separately within each population using the paired exclusion.

Measure set	CLINICAL QUALITY MEASURE SET 2011-2012
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