



Complete Summary

TITLE

Advanced chronic kidney disease (CKD): percent of patients with low-density lipoprotein (LDL) less than 100 mg/dL.

SOURCE(S)

Renal Physicians Association. Appropriate patient preparation for renal replacement therapy. Rockville (MD): Renal Physicians Association; 2002 Oct 1. 78 p. (Clinical Practice Guideline; no. 3).

Brief Abstract

DESCRIPTION

This measure assesses the percent with low-density lipoprotein (LDL) less than 100 mg/dL among patients with advanced chronic kidney disease (CKD) and on lipid lowering treatment.

RATIONALE

Patients with chronic kidney disease (CKD) have increased coronary heart disease (CHD) risk (greater than 20% per 10 years) and should be considered to be in the highest risk category for atherosclerotic cardiovascular disease (ACVD). The relationship between dyslipidemias and ACVD in the general population is strong and consistent. Although there have been no randomized controlled trials (RCTs) in patients with CKD, the measure developer has concluded that it is very likely that dyslipidemias contribute to ACVD in this population. In light of the scarce evidence on the treatment of dyslipidemias in CKD, the measure developer concluded that it is reasonable to follow the recommendations of the National Cholesterol Education Task Force Adult Treatment Panel III (ATP III) Guidelines (refer to Table 3, "Treatment of dyslipidemias in advanced CKD," in the original measure documentation).

PRIMARY CLINICAL COMPONENT

Advanced chronic kidney disease; low-density lipoprotein; lipid lowering treatment

DENOMINATOR DESCRIPTION

The number of adult patients with advanced chronic kidney disease (CKD), not currently receiving renal replacement therapy, and on lipid lowering treatment

NUMERATOR DESCRIPTION

The number of patients from the denominator with low-density lipoprotein (LDL) less than 100 mg/dL

Evidence Supporting the Measure

PRIMARY MEASURE DOMAIN

Outcome

SECONDARY MEASURE DOMAIN

Not applicable

EVIDENCE SUPPORTING THE MEASURE

A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence

A formal consensus procedure involving experts in relevant clinical, methodological, and organizational sciences

A systematic review of the clinical literature

NATIONAL GUIDELINE CLEARINGHOUSE LINK

- [Appropriate patient preparation for renal replacement therapy.](#)

Evidence Supporting Need for the Measure

NEED FOR THE MEASURE

Unspecified

State of Use of the Measure

STATE OF USE

Pilot testing

CURRENT USE

Internal quality improvement

Application of Measure in its Current Use

CARE SETTING

Ambulatory Care

Physician Group Practices/Clinics

PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Physicians

LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Individual Clinicians

TARGET POPULATION AGE

Age greater than or equal to 18 years

TARGET POPULATION GENDER

Either male or female

STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

Characteristics of the Primary Clinical Component

INCIDENCE/PREVALENCE

Unspecified

ASSOCIATION WITH VULNERABLE POPULATIONS

Unspecified

BURDEN OF ILLNESS

Patients with chronic kidney disease (CKD) have increased coronary heart disease (CHD) risk (greater than 20% per 10 years) and should be considered to be in the highest risk category for atherosclerotic cardiovascular disease (ACVD).

EVIDENCE FOR BURDEN OF ILLNESS

K/DOQI clinical practice guidelines for chronic kidney disease: evaluation, classification, and stratification. Kidney Disease Outcome Quality Initiative. Am J Kidney Dis 2002 Feb;39(2 Suppl 2):S1-246. [PubMed](#)

Levey AS, Beto JA, Coronado BE, Eknayan G, Foley RN, Kasiske BL, Klag MJ, Mailloux LU, Manske CL, Meyer KB, Parfrey PS, Pfeffer MA, Wenger NK, Wilson PW, Wright JT Jr. Controlling the epidemic of cardiovascular disease in chronic renal disease: what do we know? What do we need to learn? Where do we go from here? National Kidney Foundation Task Force on Cardiovascular Disease. Am J Kidney Dis 1998 Nov;32(5):853-906. [PubMed](#)

UTILIZATION

Unspecified

COSTS

Unspecified

Institute of Medicine National Healthcare Quality Report Categories

IOM CARE NEED

Living with Illness

IOM DOMAIN

Effectiveness

Data Collection for the Measure

CASE FINDING

Users of care only

DESCRIPTION OF CASE FINDING

Adult patients 18 years and older with advanced chronic kidney disease (CKD) and on lipid lowering treatment

DENOMINATOR (INDEX) EVENT

Clinical Condition
Encounter

DENOMINATOR INCLUSIONS/EXCLUSIONS

Inclusions

Adult patients age 18 years and older with chronic kidney disease stage 4 or 5 (glomerular filtration rate [GFR] less than or equal to 30 mL/min/1.73 m²), not currently receiving renal replacement therapy, and on lipid lowering treatment

Exclusions

Unspecified

NUMERATOR INCLUSIONS/EXCLUSIONS

Inclusions

The number of patients from the denominator with low-density lipoprotein (LDL) less than 100 mg/dL

Exclusions
Unspecified

DENOMINATOR TIME WINDOW

Time window precedes index event

NUMERATOR TIME WINDOW

Episode of care

DATA SOURCE

Administrative data
Laboratory data
Medical record
Pharmacy data

LEVEL OF DETERMINATION OF QUALITY

Individual Case

OUTCOME TYPE

Clinical Outcome

PRE-EXISTING INSTRUMENT USED

Unspecified

Computation of the Measure

SCORING

Rate

INTERPRETATION OF SCORE

Better quality is associated with a higher score

ALLOWANCE FOR PATIENT FACTORS

Unspecified

STANDARD OF COMPARISON

Internal time comparison

Evaluation of Measure Properties

EXTENT OF MEASURE TESTING

Unspecified

Identifying Information

ORIGINAL TITLE

Number of patients with LDL less than 100 mg/dL / number of patients with advanced CKD and on lipid lowering treatment.

MEASURE COLLECTION

[Renal Physicians Association Clinical Performance Measures on Appropriate Patient Preparation for Renal Replacement Therapy](#)

MEASURE SET NAME

[Renal Physicians Association Clinical Performance Measures for Dyslipidemia Recommendations](#)

DEVELOPER

Renal Physicians Association

ADAPTATION

Measure was not adapted from another source.

RELEASE DATE

2002 Oct

MEASURE STATUS

This is the current release of the measure.

SOURCE(S)

Renal Physicians Association. Appropriate patient preparation for renal replacement therapy. Rockville (MD): Renal Physicians Association; 2002 Oct 1. 78 p. (Clinical Practice Guideline; no. 3).

MEASURE AVAILABILITY

The individual measure, "Number of patients with LDL less than 100 mg/dL / number of patients with advanced CKD and on lipid lowering treatment," is

published in "Renal Physicians Association Clinical Practice Guideline #3:
Appropriate Patient Preparation for Renal Replacement Therapy."

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NQMC STATUS

This NQMC summary was completed by ECRI on May 23, 2003. The information
was verified by the Renal Physicians Association on June 17, 2003.

COPYRIGHT STATEMENT

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