

MEASURE INFORMATION FORM

Project Title:

Dialysis Facility Compare – Mineral Metabolism

Project Overview:

The Centers for Medicare & Medicaid Services (CMS) has contracted with the University of Michigan Kidney Epidemiology and Cost Center (UM-KECC) to calculate and report quality measures for public reporting on Dialysis Facility Compare. The contract name is ESRD Quality Measure Development, Maintenance, and Support. The contract number is HHSM-500-2013-13017I.

Date: Information included is current beginning with the measures reported in the Quarterly Dialysis Facility Compare Preview Period for October 2016 Report.

Measure Name

Proportion of patients with hypercalcemia

Descriptive Information

Measure Name (Measure Title De.2.)

Proportion of patients with hypercalcemia

Measure Type De.1.

Intermediate Outcome

Brief Description of Measure De.3.

Percentage of adult dialysis patients (Medicare and non-Medicare patients) with a 3-month rolling average of total uncorrected calcium (serum) greater than 10.2 mg/dL (hypercalcemia)

If Paired or Grouped De.4.

N/A

Subject/Topic Areas De.5.

Renal, Renal: End Stage Renal Disease (ESRD)

Crosscutting Areas De 6.

N/A

Measure Specifications

Measure-specific Web Page S.1.

N/A

If This Is an eMeasure S.2a.

N/A

Data Dictionary, Code Table, or Value Sets S.2b.

N/A

For Endorsement Maintenance S.3.

N/A

Numerator Statement S.4.

Number of patient-months in the denominator with 3-month rolling average of total uncorrected serum calcium greater than 10.2 mg/dL

Time Period for Data S.5.

3 months (reporting month and previous 2 months)

Numerator Details S.6.

A patient-month is included in the numerator if the average calcium level (over the prior three months) is greater than 10.2 mg/dL.

A patient need only have an uncorrected serum calcium value for the reporting month to be included in the measure. Any value reported during the two months prior to the reporting month will only be used to calculate the 3-month rolling average if applicable. I.e., a one, two, or three month average can be calculated as long as there is a value reported during the reporting month. If there are multiple calcium measurements during the month, the last in range value will be used for the calculation.

Denominator Statement S.7.

Number of patient-months among adult (greater than or equal to 18 years old) in-center hemodialysis, home hemodialysis, or peritoneal dialysis patients under the care of the dialysis facility for the entire reporting month who have had ESRD for greater than 90 days. Includes all patients not just those on Medicare.

Target Population Category S.8.

Populations at Risk

Denominator Details S.9.

N/A

Denominator Exclusions (NQF Includes “Exceptions” in the “Exclusion” Field) S.10.

Denominator exclusions include:

- Patient younger than age 18
- Patient was at the facility for fewer than 30 days during the reporting month.
- Patient on ESRD treatment for fewer than 90 days as of the first day of the reporting month.
- Patient was discharged from the facility prior to the last day of the reporting month.
- Patients who died prior to the last day of the reporting month.

Patients must have an in-range uncorrected serum calcium value ($0.1 < \text{value} \leq 20$) or a missing value. Otherwise they are excluded from the denominator.

There are no additional exclusions for this measure.

Denominator Exclusion Details (NQF Includes “Exceptions” in the “Exclusion” Field) S.11.

N/A

Stratification Details/Variables S.12.

N/A

Risk Adjustment Type S.13.

No risk adjustment or risk stratification

Statistical Risk Model and Variables S.14.

N/A

Detailed Risk Model Specifications S.15.

N/A

Type of Score S.16.

Rate/proportion

Interpretation of Score S.17.

Better quality = Lower score

Calculation Algorithm/Measure Logic S.18.

Patients are included in the denominator if they are ≥ 18 years old as of the first day of the three month study period, are ESRD for more than 90 days as of the first day of the most recent month of the study period, and are under the care of the facility for at least 30 days as of the last day of the most recent month of the study period. Patients must have an in-range uncorrected serum calcium value ($0.1 < \text{value} \leq 20$) or a missing value.

The patient's age will be determined by subtracting the patient's date of birth from the first day of the three month study period. The patient's time on dialysis will be determined by subtracting the patient's date regular Chronic Dialysis Began from the first day of the most recent month of the study period.

Patients on dialysis are determined as follows: Primary Type of Dialysis is Hemodialysis, Home Hemodialysis, CAPD or CCPD in the most recent month of the study period. Patients under the care of the facility for at least 30 days are determined as follows: if the discharge date from the specified facility is missing/null or is after the last day of the most recent month of the study period, then the patient's time under the care of the facility is calculated from the admit date to the last day of the most recent month of the study period; if the discharge date is prior to the last day of the most recent month of the study period, the patient is excluded from the calculation.

The numerator will be determined by counting the patient months in the denominator that meet the following criteria: the average total serum calcium over the 3-month study period is greater than 10.2 mg/dL. If there is more than one serum or plasma calcium measurement within each month of the study period, the last value for the month shall be used for the calculation of the average.

Calculation Algorithm/Measure Logic Diagram URL or Attachment S.19.

No diagram provided

Sampling S.20.

N/A

Survey/Patient-Reported Data S.21.

N/A

Missing Data S.22.

N/A

Data Source S.23.

Electronic Clinical Data

Data Source or Collection Instrument S.24.

CROWNWeb

Data Source or Collection Instrument (Reference) S.25.

No data collection instrument provided

Level of Analysis S.26.

Facility

Care Setting S.27.

Dialysis Facility

Composite Performance Measure S.28.

N/A