

# Measure Information Form

1. **Measure Name/Title** ([CMS Consensus-Based Entity \[CBE\] Measure Submission Form](#) , Measure Specifications sp.01)

Delivered Dose of Peritoneal Dialysis Above Minimum

2. **Descriptive Information**

2.1 Measure Type

- ☐ process
- ☐ outcome
- ☐ PRO-PM
- ☐ cost /resource use
- ☐ efficiency
- ☐ structure
- ☒ intermediate outcome
- ☐ population health
- ☐ composite
  - ☐ process
  - ☐ outcome
  - ☐ other
- ☐ other

2.2 Brief Description of Measure (CMS CBE Measure Submission Form, Measure Specifications sp.02 and sp.06)

Percentage of all patient months for adult patients ( $\geq 18$  years old) in the sample for analysis who were on ESRD treatment for 91 days or more and whose delivered peritoneal dialysis dose was a weekly Kt/V urea  $\geq 1.7$  (dialytic + residual) during the four-month study period.

2.3 If Paired or Grouped (CMS CBE Measure Submission Form, Measure Specifications sp.03)

N/A

3. **Measure Specifications**

3.1 Measure-Specific Webpage (CMS CBE Measure Submission Form, Measure Specifications sp.09)

N/A

- 3.2 If this is an electronic clinical quality measure (eCQM) (CMS CBE Measure Submission Form, Measure Specifications sp.10)

N/A

- 3.3 Data Dictionary, Code Table, or Value Sets (CMS CBE Measure Submission Form, Measure Specifications sp.11)

The data elements used for this measure are listed below. A complete description of the data elements can be found at the ESRD section of QualityNet.org.

**EQRS Data Elements**

- Unique Patient Identifier (UPI)
- Facility CCN
- Patient Date of Birth
- Patient Date of Death
- Primary type of Treatment ID (EQRS dialysis type)
- Medicare Certified Services Offered
- Additional Services Offered (Non-Medicare)
- KT/V value
- First date of ESRD

**Claims Based Data Elements**

Note: *Only Type of Bill (TOB) 72x claims are considered in the measure calculation.*

- Claim Related Condition Code
- Claim Control Number
- Claim From Date.
- Claim Through Date
- Claim NCH Daily Process Date
- Claim Link Number
- Claim Occurrence Code
- Claim Occurrence Date
- Claim CCN
- Claim Value Code D5

- Claim Value Amount
- Claim Value Sequence Number
- Claim Line Institutional Revenue Center Codes
- Claim Line Institutional Revenue Center Data
- Patient Health Insurance Claim Number
- Patient Date of Death
- Patient Date of Birth

3.4 For an instrument-based measure (CMS CBE Measure Submission Form, Measure Specifications sp.23 and sp.24)

N/A

3.5 Updates since last submission (CMS CBE Measure Submission Form, Specifications: Maintenance Update spma.01 and spma.02)

There are no changes to the measure specifications since the previous endorsement in 2015.

3.6 Numerator Statement (CMS CBE Measure Submission Form, Measure Specifications sp.12)

Patient-months in the denominator for patients whose delivered dose of peritoneal dialysis was equal to or greater than 1.7 Kt/V (dialytic+ residual, measured in the last 4 months) and also in range ( $Kt/V \leq 8.5$ ).

3.7 Numerator Details (CMS CBE Measure Submission Form, Measure Specifications sp.13)

Number of patients in denominator whose delivered dose of peritoneal dialysis (dialytic + residual, calculated from the last measurements of the four-month study period) was a  $Kt/V \geq 1.7$  and  $Kt/V \leq 8.5$ .

- If a patient has multiple in-range Kt/V values in EQRS during a month, then the last reported value is selected.
- If an in-range value was not found in EQRS for the patient during the month then the last reported non-missing value reported on the last eligible Medicare claim for the patient during the month is selected (when available).
  - A claim is considered eligible if it was from a peritoneal dialysis patient who has ESRD for at least 91 days and is at least 18 years old (as of the claim-from date).
  - The last eligible claim with an in-range (less than or equal to 8.5) and not expired ( $Kt/V$  occurrence date more than four months prior to the claim through date)

Kt/V value reported is selected when there were multiple claims reported in a month.

3.8 Denominator Statement (CMS CBE Measure Submission Form, Measure Specifications sp.14)

To be included in the denominator for a particular reporting month, the patient must be on peritoneal dialysis for the entire month, be  $\geq 18$  years old at the beginning of the month, must have had ESRD for greater than 90 days at the beginning of the month, and must be assigned to that facility for the entire month.

3.9 Denominator Details (CMS CBE Measure Submission Form, Measure Specifications sp.15)

A patient may only be assigned to one dialysis facility each month. For each patient, the dialysis provider at each point in time are identified primarily using data from EQRS, the Medical Evidence Form CMS-2728, and Medicare dialysis claims. Patient assignment to provider and modality (either HD or peritoneal dialysis [PD]) are both determined according to the information reported in the above-mentioned data sources.

For each reporting month, patients are required to have been indicated as treated by the facility for the complete month in order to be included in the denominator. If a patient transfers in or out of the facility, discontinues dialysis, recovers renal function, or dies anytime during the month, the entire patient-month is excluded. The number of sessions is not considered and the patient may not have received treatment at the facility for the entire month to be included. For example, if a patient is hospitalized or travels during the month, the patient may still be included in the facility's measure if they are indicated as the facility's patient that month according to the data as described above. Additionally, patients for whom the only evidence of dialysis treatment is the existence of Medicare claims are considered lost to follow-up and removed from a facility's analysis one year following the last claim, if there is no earlier evidence of transfer, recovery, or death. In other words, if a period of one year passes with neither Medicare dialysis claims nor EQRS information to indicate that a patient is receiving dialysis treatment, we consider the patient lost to follow-up, and do not include the patient in the calculations.

3.10 Denominator Exclusions (CMS CBE Includes "Exception" in the "Exclusion" Field) (CMS CBE Measure Submission Form, Measure Specifications sp.16)

Exclusions that are implicit in the denominator definition include

- Patients-months where the patient is not assigned to the same facility for the entire month.
- Patients younger than age 18 years old as of the first day of the reporting month if EQRS data are used or as of the claim from date if claims data are used (Section 3.1.3).

- Patients-months where the patient is not on peritoneal dialysis the entire month.

- Patients-months where the patient was on ESRD treatment (see Section 3.1.2) for less than 91 days as of the first day of the reporting month. There are no additional exclusions for this measure.

3.11 Denominator Exclusion Details (CMS CBE Includes “Exception” in the “Exclusion” Field) (CMS CBE Measure Submission Form, Measure Specifications sp.17)

N/A

3.12 Stratification Details/Variables (CMS CBE Measure Submission Form, Measure Specifications sp.18)

N/A

3.13 Risk Adjustment Type (CMS CBE Measure Submission Form, Measure Specifications sp.19)

- ☒ no risk adjustment or risk stratification
- ☐ stratification by risk category/subgroup
- ☐ statistical risk model
- ☐ other

3.14 Type of Score (CMS CBE Measure Submission Form, Measure Specifications sp.20)

- ☐ count
- ☒ rate/proportion
- ☐ ratio
- ☐ categorical (e.g., yes or no)
- ☐ continuous variable (CV) (e.g., an average)
- ☐ composite/scale
- ☐ other (specify) Click or tap here to enter text.

3.15 Interpretation of Score (CMS CBE Measure Submission Form, Measure Specifications sp.21)

Better quality = Higher score

3.16 Calculation Algorithm/Measure Logic (CMS CBE Measure Submission Form, Measure Specifications sp.22)

Denominator: For the reporting month, patients are included in the denominator if:

1. Patient modality is indicated as peritoneal dialysis during the entire month
2. Patient age as of the beginning of the reporting month is at least 18 years
3. Patient has had ESRD for greater than 90 days at the beginning of the month
4. Patient has been assigned to the facility for the entire month

Numerator: Number of patients in denominator whose delivered dose of peritoneal dialysis (dialytic + residual, calculated from the last measurements of the four-month study period) was a  $Kt/V \geq 1.7$  and  $Kt/V \leq 8.5$ .

3.17 Sampling (CMS CBE Measure Submission Form, Measure Specifications sp.25 and sp.26)

N/A

3.18 Survey/Patient-Reported Data (CMS CBE Measure Submission Form, Measure Specifications sp.27)

N/A

3.19 Data Source (CMS CBE Measure Submission Form, Measure Specifications sp.28)

- ☐ administrative data
- ☒ claims data
- ☐ paper patient medical records
- ☐ electronic patient medical records
- ☐ electronic clinical data
- ☒ registries
- ☐ standardized patient assessments
- ☐ patient-reported data and surveys
- ☐ non-medical data
- ☐ other—describe in 3.20 (CMS CBE Measure Submission Form, Measure Specifications sp.29)

3.20 Data Source or Collection Instrument (CMS CBE Measure Submission Form, Measure Specifications sp.29)

For the analyses supporting this submission, the measure is calculated using EQRS as the primary data source for the Kt/V values used to determine the numerator. If a patient's Kt/V data are missing in EQRS, Kt/V values from Medicare claims are used as an additional source for obtaining that information. Please see the attached data dictionary provided above for a list of specific data elements that are used from each data source.

3.21 Data Source or Collection Instrument (Reference) (CMS CBE Measure Submission Form, Measure Specifications sp.30)

N/A

3.22 Level of Analysis (CMS CBE Measure Submission Form, Measure Specifications sp.07)

- ☐ individual clinician
- ☐ group/practice
- ☒ hospital/facility/agency
- ☐ health plan
- ☐ accountable care organization
- ☐ geographic population
- ☐ other (specify) [Click or tap here to enter text.](#)

3.23 Care Setting (CMS CBE Measure Submission Form, Measure Specifications sp.08)

- ☐ ambulatory surgery center
- ☐ clinician office/clinic
- ☐ outpatient rehabilitation
- ☐ urgent care – ambulatory
- ☐ behavioral health: inpatient
- ☐ behavioral health: outpatient
- ☒ dialysis facility
- ☐ emergency medical services/ambulance
- ☐ emergency department
- ☐ home health
- ☐ hospice
- ☐ hospital
- ☐ hospital: critical care
- ☐ hospital: acute care facility
- ☐ imaging facility
- ☐ laboratory
- ☐ pharmacy
- ☐ nursing home/skilled nursing facility (SNF)
- ☐ inpatient rehabilitation facility (IRF)
- ☐ long-term acute care
- ☐ birthing center
- ☐ no applicable care setting
- ☐ other (specify) [Click or tap here to enter text.](#)

3.24 Composite Measure ([CMS CBE Composite Measure Submission Form](#) , Measure Specifications sp.30)

N/A

## *REFERENCES*

- Paniagua R, Amato D, Vonesh E, et al. Effects of increased peritoneal clearances on mortality rates in peritoneal dialysis: ADEMEX, a prospective, randomized, controlled trial." *JASN*.2002 13:1307-20.
- Lo WK, Lui SL, Chan TM, Li FK, Lam MF, Tse KC, Tang SC, Choy CB, Lai KN. Minimal and optimal peritoneal Kt/V targets: Results of an anuric peritoneal dialysis patient's survival analysis. *Kidney Int*. 2005;67:2032-8.