

Measure Information Form

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

Percentage of Prevalent Patients Waitlisted (PPPW)

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)

This measure tracks the percentage of patients at each dialysis facility who were on the kidney or kidney-pancreas transplant waitlist.

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)

Variable	Primary Data Source
Facility CCN #	CMS data sources ¹
Reporting year and month	EQRS
Waitlist status	UNOS/OPTN ²
Date of birth	CMS data sources ¹
Date of first ESRD	Medical Evidence Form (CMS-2728)
Nursing home status on the Medical Evidence Form ³	Medical Evidence Form (CMS-2728) Question 16u and 21
Nursing home status in the current month ³	CMS Long-Term Care Minimum Data Set (MDS)
Hospice status in the current month ³	CMS Hospice file

¹EQRS (including CMS Medical Evidence Form (Form CMS-2728)) is the primary data source used for placing patients at dialysis facilities, age, and incident comorbidities adjustments, and exclusion of patients ≥75-years-old.

²United Network for Organ Sharing (UNOS)/OPTN are the data sources for waitlist or living donor transplant events.

³The Nursing Home MDS and the CMS Medical Evidence Form (Form CMS-2728) are used to identify SNF patients. A separate CMS file that contains final action claims submitted by hospice providers was used to determine the hospice status.

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)

N/A

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

Number of patient months in which the patient at the dialysis facility is on the kidney or kidney-pancreas transplant waitlist as of the last day of each month during the reporting year.

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

To be included in the numerator for a particular month, the patient must be on the kidney or kidney-pancreas transplant waitlist as of the last day of the month during the reporting year.

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

The denominator for the PPPW is the sum of all patient-months for patients who are under the age of 75 in the reporting month and who are assigned to the dialysis facility according to each patient's treatment history as of the last day of each month during the reporting year.

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

EQRS is the primary basis for placing patients at dialysis facilities, and dialysis claims are used as an additional source. Information regarding first ESRD service date, death, and transplant is obtained from several sources including the CMS Medical Evidence Form (CMS-2728), transplant data from the OPTN (Dialysis Facility Measures only), the Death Notification Form (CMS-2746) and the Social Security Death Master File (Dialysis Facility Measures only). Additionally, for Dialysis Facility Measures, a new treatment history record is created for each patient each time he/she changes facility or treatment modality. Each record represents a time period associated with a specific modality and dialysis facility.

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 include:

Patients 75 years of age and older on the last day of each month during the reporting year.

Patients who were admitted to a skilled nursing facility (SNF) or a hospice during the month of evaluation were excluded from that month; patients who were admitted to a skilled nursing facility (SNF) at incidence or previously according to Form CMS-2728 were also excluded.

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

The Nursing Home Minimum Dataset and the Questions 16u and 21 on CMS Medical Evidence Form are used to identify patients in skilled nursing facilities. For hospice patients, a separate CMS file that contains final action claims submitted by Hospice providers was used to determine the hospice status.

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

Age adjustment was deemed necessary on clinical grounds. Although age alone is not a contraindication to transplantation, older patients are likely to have more comorbidities and be generally more frail thus making them potentially less suitable candidates for transplantation and therefore some may be appropriately excluded from waitlisting for transplantation. This may affect waitlisting rates for facilities with a substantially older age composition than the average.

A linear spline was used to model the effect of (continuous) age. The spline's knots at 15, 55, and 70 were determined empirically using standard techniques.

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)

See flowchart

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)

EQRS (including CMS Medical Evidence Form [Form CMS-2728]) is the primary data source used for placing patients at dialysis facilities, age and incident comorbidities adjustments and exclusion of patients => 75-year-old (see information provided under “denominator details”). OPTN is the data source for waitlist or living donor transplant events. The Nursing Home MDS and the CMS Medical Evidence Form (Form CMS-2728) are used to identify SNF patients. A separate CMS file that contains final action claims submitted by hospice providers was used to determine the hospice status.3.21 Data Source or Collection Instrument (Reference) (CMS CBE Measure Submission Form, Measure Specifications sp.30)

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)