

# Analysis of the Comprehensive Dialysis Adequacy Measure Proposed for the PY 2019 ESRD QIP

The counts in the tables below are based on 6,036 facilities that are eligible for both the PY 2018 Kt/V Dialysis Adequacy Measure Topic and the proposed PY 2019 Kt/V Comprehensive Dialysis Adequacy Measure. Medicare claims and CROWNWeb data from calendar years 2013 and 2014 were used to determine baseline and performance measure rates, respectively. Table 1 presents the 15<sup>th</sup>, 50<sup>th</sup>, and 90<sup>th</sup> percentiles for the performance rates and component scores among all eligible facilities. The total patient count by measure among all eligible facilities is also presented (Table 1). Overall, there were 378,421 eligible patients included in the 2018 Kt/V Measure Topic score and 445,163 eligible patients in the Kt/V Comprehensive measure score. The median Kt/V Measure Topic score for PY 2018 was 8, compared to 5 for the proposed PY 2019 Kt/V Comprehensive measure score.

In order to evaluate the differences in the Kt/V scoring methodology at the facility level, Tables 2a and 2b present 2014 performance rates and measure scores reported among three representative eligible facilities. For PY 2018, Facility 1 received scores of 5 and 9 for the PY 2018 Adult HD Kt/V measure and Pediatric HD Kt/V measures, respectively. The Kt/V Measure Topic score for PY 2018 was 7. The proposed PY 2019 Kt/V Comprehensive measure score was determined to be 6. Facility 2 received a PY 2018 Measure Topic score of 6 and a proposed PY 2019 Kt/V Comprehensive measure score of 5. This facility was eligible for the PY 2018 Adult HD Kt/V and Adult PD Kt/V measures. Facility 3 received a PY 2018 Kt/V Measure Topic score of 1 and a proposed PY 2019 Kt/V Comprehensive measure score of 4. For PY 2018, this facility was only eligible for the pediatric PD Kt/V measure score. For Facility 2, the total number of eligible patients increased from PY 2018 to PY 2019 (as proposed) from 110 to 136, and for Facility 3, the number increased from 18 for PY 2018 to 31 for PY 2019 (as proposed). The eligible patient count decreased from 26 for PY 2018 to 14 for PY 2019 (as proposed) for Facility 1.

Finally, Table 3 presents the eligible patient counts within each of the four Kt/V measures for the PY 2018 and proposed PY 2019 Comprehensive measure. Since the proposed PY 2019 Comprehensive measure only requires 11 eligible patients for the overall measure, the overall total patient counts is considerably higher for each measure component when comparing PY 2019 (as proposed) to PY 2018.

**Table 1: Performance Rates and Scores for Individual and Comprehensive Kt/V Measures**

Relative Unit of Analysis	Adult HD Kt/V	Adult PD Kt/V	Ped. HD Kt/V	Ped. PD Kt/V	Dialysis Adequacy Measure Topic	Comprehensive Measure
15 <sup>th</sup> Percentile (Measure rate)	93.01%	76.67%	82.84%	45.99%		87.03%
50 <sup>th</sup> Percentile (Measure rate)	97.24%	88.65%	93.94%	78.26%		92.56%
90 <sup>th</sup> Percentile (Measure rate)	99.43%	96.43%	96.88%	88.39%		97.19%
15 <sup>th</sup> Percentile (ESRD QIP Score)	4	2	7	1	4	2
50 <sup>th</sup> Percentile (ESRD QIP Score)	8	6	9	7	8	5
90 <sup>th</sup> Percentile (ESRD QIP Score)	10	9	10	9	10	8
Number of patients included in the measure	345,535	32,774	71	41	378,421	445,163

\*\*Based on 6,036 facilities

**Table 2a: Sample Facility Performance Rates and Scores for Individual and Comprehensive Kt/V Measures**

Relevant Unit of Analysis	Facility 1	Facility 2	Facility 3
Adult HD Kt/V (Numerator/Denominator; Measure Rate)	117/125; 93.60%	804/846; 95.04%	No Score
Adult PD Kt/V (Numerator/Denominator; Measure Rate)	No Score	80/88; 90.91%	No Score
Ped. HD Kt/V (Numerator/Denominator; Measure Rate)	93/99; 93.94%	No Score	No score
Ped. PD Kt/V (Numerator/Denominator; Measure Rate)	No Score	No Score	52/125; 41.60%
Adult HD Kt/V (ESRD QIP Score)	5	6	No score
Adult PD Kt/V (ESRD QIP Score)	No Score	7	No score
Ped. HD Kt/V (ESRD QIP Score)	9	No Score	No score
Ped. PD Kt/V (ESRD QIP Score)	No Score	No Score	1
Dialysis Adequacy Measure Topic Score	7	6	1
Patients included in the Dialysis Adequacy Measure Topic	26	110	18
Comprehensive Measure (Measure Rate) <sup>a</sup>	76.98%	93.42%	90.87%

Relevant Unit of Analysis	Facility 1	Facility 2	Facility 3
Comprehensive Measure (ESRD QIP Score)	6	5	4
Patients included in the Comprehensive Measure	14	136	31

<sup>a</sup> The Individual measure numerators and denominators for the Comprehensive Measures described in this row can be found in the following Table 2b.

**Table 2b. Kt/V Comprehensive Measure Components: Numerator and Denominator Counts (in Patient-Months)**

Relevant Unit of Analysis	Facility 1	Facility 2	Facility 3
Adult HD Kt/V	37/37	1161/1234	6/8
Ped. HD Kt/V	53/70	0/0	41/41
Adult PD Kt/V	4/12	88/103	0/0
Ped. PD Kt/V	13/20	0/0	182/203
<b>Kt/V Composite Numerator</b>	<b>107</b>	<b>1249</b>	<b>229</b>
<b>Kt/V Comprehensive Denominator</b>	<b>139</b>	<b>1337</b>	<b>252</b>
<b>KT/V Comprehensive Rate</b>	76.98%	93.42%	90.87%

**Table 3: Number of Eligible Patients by Individual Kt/V Measure Components**

Measure**	Adult HD Kt/V	Adult PD Kt/V	Ped. HD Kt/V	Ped. PD Kt/V
PY 2018 Kt/V measures	345,535	32,774	71	41
PY 2019 Kt/V Comprehensive Measure	391,408	56,694	639	820

\*\*Based on 6,036 facilities