Topped-out Analysis of Clinical Measures Proposed for the PY 2019 ESRD QIP

ESRD QIP PY 2019 Measure Distributions

The distributions of the PY 2019 clinical measures from calendar year 2013 and 2014 were assessed in order to determine if any measures were "topped out". Two conditions had to be met. First, a measure was considered topped out if the 75th percentile, or 25th for measures where lower percentiles indicate better performance, was *statistically indistinguishable* from the 90th (or 10th) percentile **and** second, the truncated coefficient of variation *(TCV) was less than or equal to 0.10*. Percentiles were considered statistically indistinguishable if the 75th/25th percentile was within two standard errors of the 90th/10th percentile. Additionally, for each measure the TCV was calculated by first removing the lower and upper 5th percentiles and then dividing the standard deviation by the mean of this truncated distribution ($SD_{truncated}/Mean_{truncated}$).

Measures evaluated included the combined Kt/V measure, Fistula, Catheter, and Hypercalcemia. Medicare claims data from 2014 were used in Fistula and Catheter calculations. CROWNWeb data from 2014 was used for Hypercalcemia, and the Kt/V measure was based on both combination of 2013 CROWNWeb data and 2013 Medicare claims data.

Table 1 presents the percentiles, standard error, and TCV for each measure. In this analysis, all facilities with at least 11 eligible patients per measure were included. Results indicate none of the measures met both of the "topped out" conditions.

Table 1. PY 2019 Clinical Measure including facilities with at least 11 eligible patients per measure

Measure	N	75th/25th percentile	90th/10th percentile	Std Error	Statistically Indistin-guishable	Trun-cated Mean	Trun-cated SD	TCV	TCV ≤ 0.10
Kt/V delivered dose above minimum	5818	96.7	98.5	0.001	No	92.3	0.05	0.06	Yes
Fistula Use	5763	73.3	79.7	0.15	No	65.6	8.9	0.14	No
Catheter Use	5744	5.4	2.7	0.10	No	90.0[a]	5.3	<0.01	Yes
Serum Calcium>10.2	6042	0.33	0.0	0.03	No	98.1[a]	1.5	<0.01	Yes

[a]Truncated mean is reversed (100% - truncated mean) for measures where lower score = better performance.