

Analysis of Topped-Out Measures Finalized for the PY 2016 ESRD QIP

Updated June 19, 2014

ESRD QIP PY 2016 Measure Distributions

The distributions of the PY 2016 clinical measures using Medicare claims data from calendar year 2013 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 ($SD_{truncated}/Mean_{truncated}$).

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 indicated that Hgb>12 and Pediatric HD Kt/V both met the topped out criteria. However for the pediatric HD Kt/V measure, only 10 facilities met the criteria for this measure, resulting in a large standard error.

Table 1. PY 2016 Clinical Measures using Medicare claims data from January 2013 – December 2013, including facilities with at least 11 eligible patients per measure

Measure	N	75 th /25 th percentile	90 th /10 th percentile	Std Error	Statistically Indistin- guishable	Trun- cated Mean	Trun- cated SD	TCV	TCV ≤ 0.10
Adult HD Kt/V≥1.2	5666	96.1	97.5	0.13	No	92.7	4.1	0.04	Yes
Adult PD Kt/V≥1.7	1176	92.9	95.7	0.55	No	82.1	12.7	0.15	No
Pediatric HD Kt/V≥1.2	10	94.5	98.0	2.71	Yes	86.9	6.8	0.08	Yes
Hgb>12	5521	0.0	0.0	0.02	Yes	98.6 ^a	0.4	<0.01	Yes
Fistula Use	5561	72.3	78.6	0.16	No	64.4	9.0	0.14	No
Catheter Use	5586	5.9	3.2	0.10	No	89.2 ^a	5.6	<0.01	Yes
Serum Calcium>10.2	5685	0.3	0.0	0.04	No	97.7 ^a	1.9	<0.01	Yes

^aTruncated mean is reversed (100% - truncated mean) for measures where lower score = better performance.

Analyses were also performed using facilities with at least 11 eligible patients per measure topic area (Table 2). By expanding the 11 patient-minimum to the measure topic area, the number of eligible facilities for the pediatric HD Kt/V measure increased from 10 to 169. Furthermore, the TCV increased to 0.22, indicating this measure does not meet the topped-out criteria. The TCV was less than or equal to 0.10 for adult HD Kt/V, Catheter Use, and Serum Calcium. A small coefficient of variation suggests that the distribution of individual facility performance scores is clustered tightly around the mean value,

suggesting that it is not useful to draw distinctions between individual facility performance scores (reference: <http://www.gpo.gov/fdsys/pkg/FR-2011-05-06/html/2011-10568.htm>).

Table 2. PY 2016 Clinical Measures using Medicare claims data from January 2013 – December 2013, including facilities with at least 11 eligible patients per measure topic area

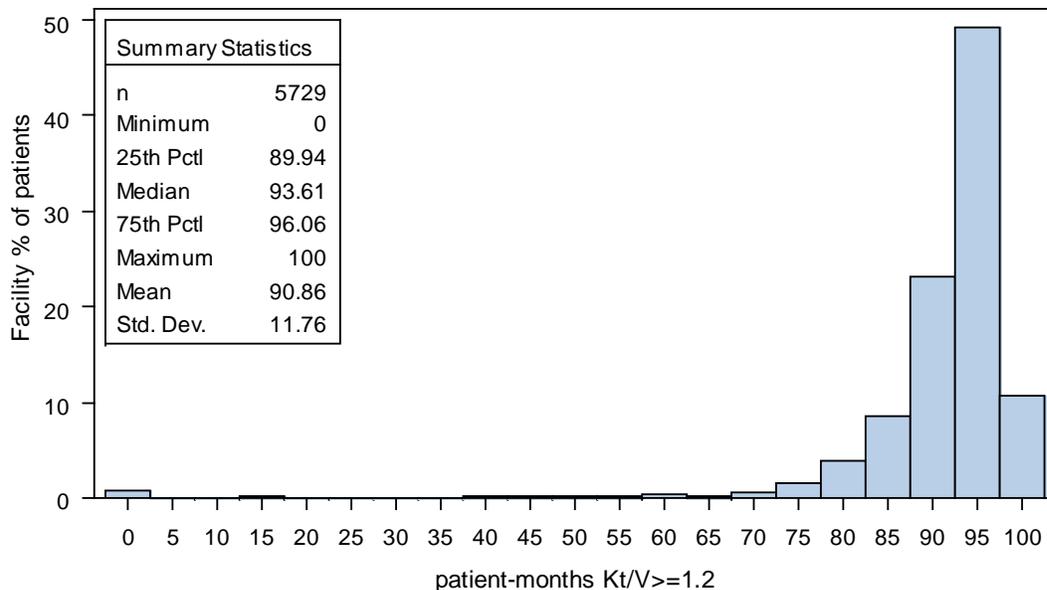
Measure	N	75 th /25 th percentile	90 th /10 th percentile	Std Error	Statistically Indistinguishable	Truncated Mean	Truncated SD	TCV	TCV ≤ 0.10
Adult HD Kt/V≥1.2	5729	96.1	97.6	0.16	No	92.6	4.3	0.05	Yes
Adult PD Kt/V≥1.7	2405	92.9	96.8	0.50	No	79.8	17.8	0.22	No
Pediatric HD Kt/V≥1.2	169	100	100	2.49	Yes	80.8	18.0	0.22	No
Hgb>12	5521	0.0	0.0	0.02	Yes	98.6 ^a	0.4	<0.01	Yes
Fistula Use	5728	72.4	79.1	0.16	No	64.5	9.2	0.14	No
Catheter Use	5739	5.9	3.1	0.11	No	89.2 ^a	5.7	<0.01	Yes
Serum Calcium>10.2	5685	0.3	0.0	0.04	No	97.7 ^a	1.9	<0.01	Yes

^aTruncated mean is reversed (100% - truncated mean) for measures where lower score = better performance.

The distributions of each measure are presented the figures below. Measures included facilities with at least 11 eligible patients for the topic measure area.

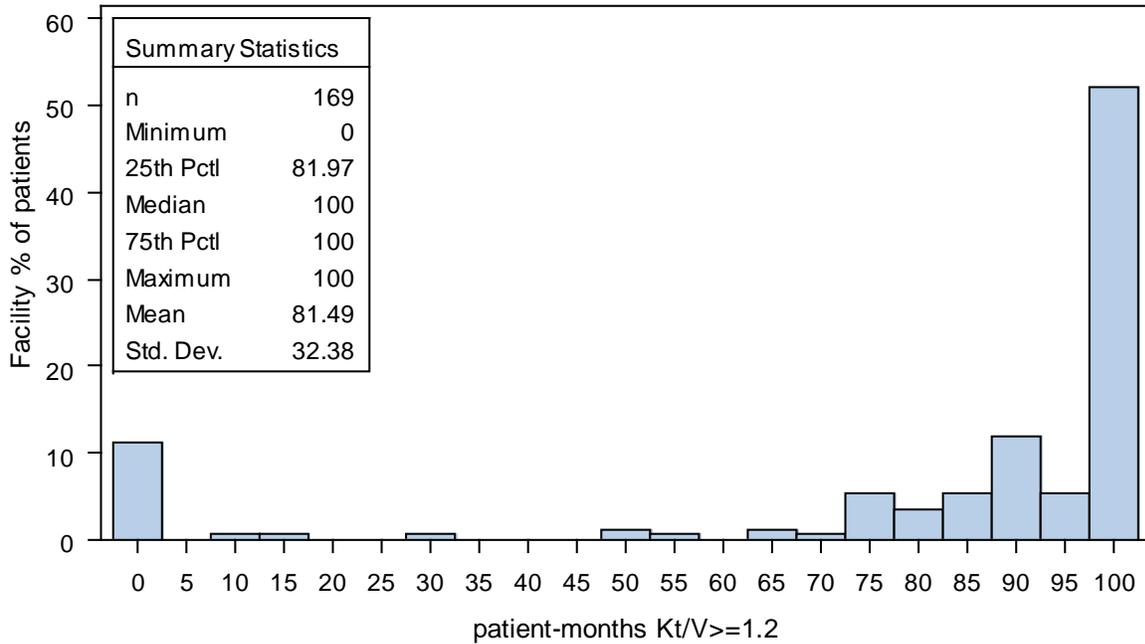
Distribution of Adult HD Kt/V≥1.2

January 2013 - December 2013



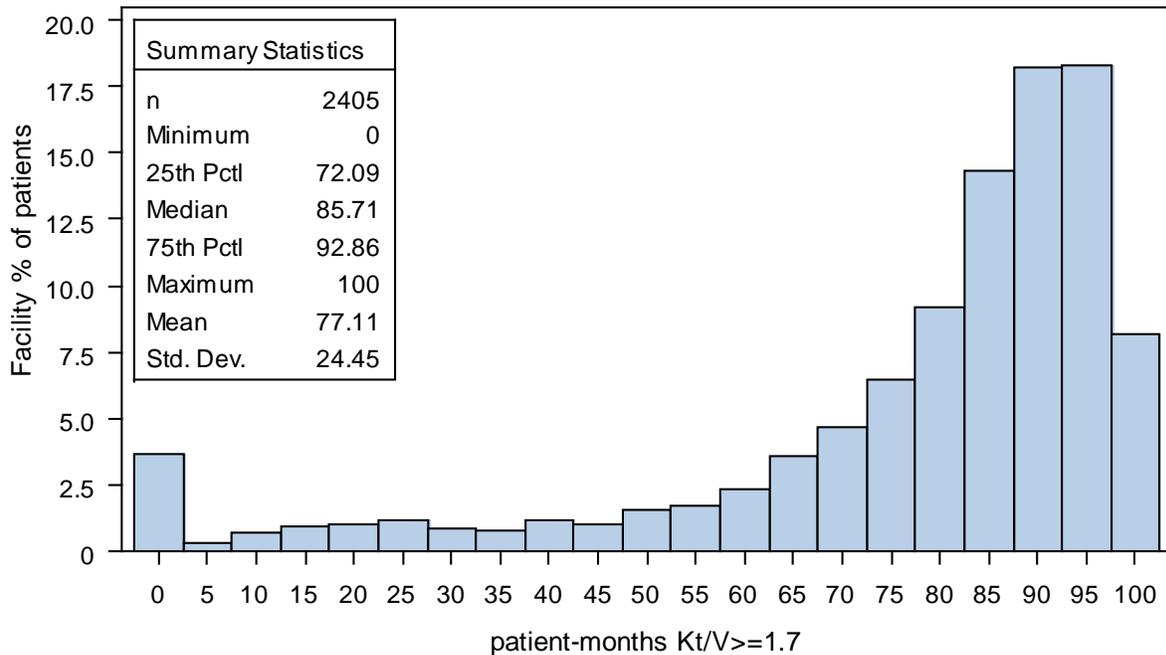
Distribution of Pediatric HD Kt/V ≥ 1.2

January 2013 - December 2013



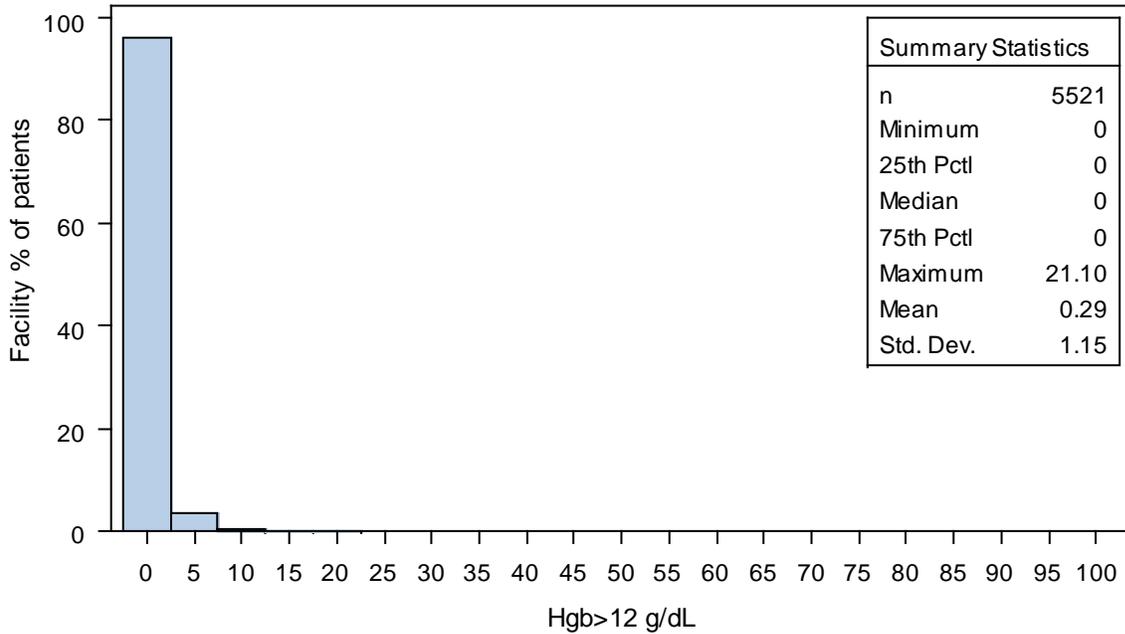
Distribution of Adult PD Kt/V ≥ 1.7

January 2013 - December 2013



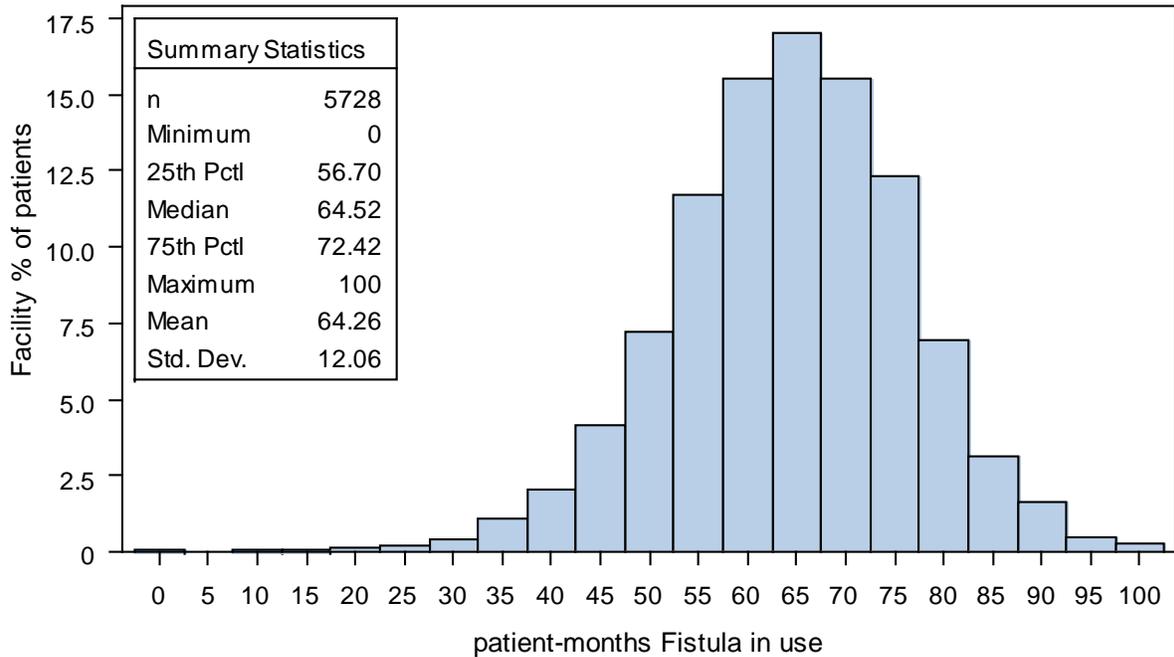
Distribution of Hgb>12 g/dL

January 2013 - December 2013



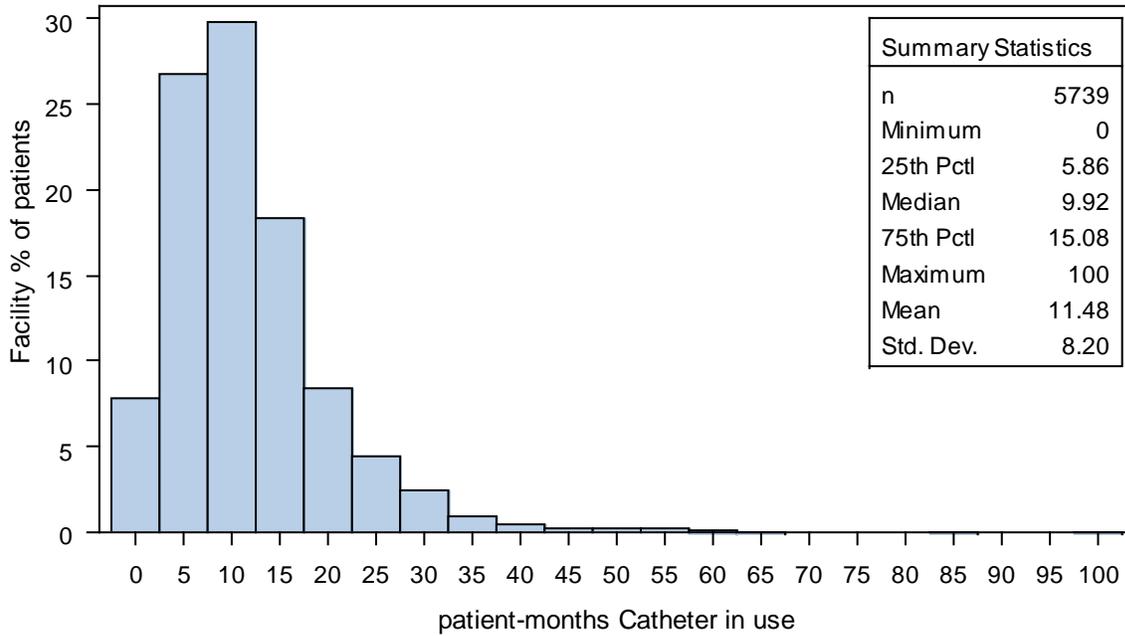
Distribution of Fistula patient-months

January 2013 - December 2013



Distribution of Catheter patient-months

January 2013 - December 2013



Distribution of Serum Calcium >10.2

January 2013 - December 2013

