Dear Region Director:

This report is designed to provide a comparative summary of treatment patterns and patient outcomes for End Stage Renal Disease (ESRD) patients in this region, as compared to all patients in the United States. The statistics reported here include dialysis patients treated during 2017-2020 in the chronic dialysis facilities in this region and are based primarily on Medicare claims and data collected for CMS. Selected statistics from this profile are summarized below and region-to-region comparisons of key statistics are provided in the *Charts and Tables of Key Statistics by Region*.

Selected highlights for this Region are provided on the first few pages. For a complete description of the methods and data reported here please see the *Guide to the Region Profiles for FY 2022*. The Guide is available on the Dialysis Data website at www.DialysisData.org. We hope this profile is of interest to you and is helpful in your survey efforts. We welcome your feedback on ways to improve future profiles.

What's New This Year

As part of a continuing effort to improve the quality and relevance of this report for your region, the following changes have been incorporated into the Region Profile for FY 2022:

- COVID-19 patient counts, deaths, and hospitalizations among Medicare dialysis patients are reported in the new Table C1, and among Medicare nursing home (NH) dialysis patients in the new Table C2. These summaries are presented for each quarter of 2020, with national averages presented for Quarter 4 (October 2020 December 2020).
- COVID adjustments are included in the models for Standardized Mortality Ratio (Table 3), Standardized Hospitalization Ratio Admissions (Table 4), and Standardized Readmission Ratio (Table 4).
- Influenza Vaccinations reported in CROWNWeb are now included in Table 6.
- Medicare Advantage patients are now included in Standardized Hospitalization Ratio (Admissions and Days) in Table 4 and Prevalent Comorbidities in Table 11. As a result, prevalent comorbidity summaries are restricted to inpatient claims.

Data Limitations in FY 2022 Profiles

Due to incomplete CROWNWeb data for 2020 and the COVID Extraordinary Circumstances Exception (ECE) data policy from CMS, the measures reported in the FY 2022 Profiles based on calendar year 2020 have been modified to optimize the available information. Here we provide a brief overview of the impact of data incompleteness and exclusions on the FY 2022 Profiles.

The CMS ECE policy restricts the use and availability of claims data from March-June 2020 and CROWNWeb clinical data from January–June 2020. In addition, CROWNWeb data incompleteness for the end of 2020 results in:

- Unavailable clinical data for the last four months of the calendar year;
- Unavailable incident dialysis patient data during the last three months of the calendar year;
- An inability to place patients in dialysis facilities for the last two months of the calendar year.

Although this affects all measures, several measures in the Profiles do not need incident patients or patient assignment through the end of 2020 because of the 90-day new patient rule and 60-day transfer rules. (Please see Guide to the Profiles for FY 2022, in the section entitled "General Inclusion Criteria for Dialysis Patients" for details on the 90-day and 60-day rules.) Information on hospitalizations, transplants, wait listing, nursing home, and deaths are available through the end of 2020. CROWNWeb clinical data are only available for July and August 2020 (due to both ECE and data incompleteness). A summary of data available for 2020 measures reported in the FY 2022 Profiles is provided in the table below. Table footnotes provide additional information for specific measures impacted by the data limitations.

Incorporating COVID-19 Data Exclusions

Data from January 2020 – June 2020 CROWNWeb clinical data will be excluded from all calculations. This affects summaries for both adult and pediatric measures as applicable: Influenza Vaccination (Table 6); Anemia Management - Hemoglobin (Table 7); Dialysis Adequacy (Table 8); Mineral Metabolism (Table 9); and Vascular Access (Table 10). PD Kt/V, long-term catheter rates, and influenza vaccination rates for all dialysis patients in 2020 are not available due to insufficient data. Outcomes during the period March 2020 – June 2020 for remaining measures will not be reported. This includes summaries for both adult and pediatric measures as applicable: Mortality (Table 3); Hospitalization including Emergency Department and Readmission statistics (Table 4); Transplantation (Table 5); Waitlist (Table 5); Influenza Vaccination (Table 6); Anemia Management - STrR (Table 7); and Vascular Access – PD Infection (Table 10).

Table: Data Availability for 2020 Summaries in FY 2022 Profiles

| Profile Table | 2020 Data Availability |
|---|--|
| Table C1: COVID-19 in Medicare Dialysis Patients, 2020 Table C2: COVID-19 in Medicare Dialysis Patients Treated in Nursing Home Facilities, 2020 Table 1: Summaries for All Dialysis Patients Treated as of December 31 Table 11: Comorbidities Reported on Inpatient Medicare Claims for Medicare Dialysis Patients | January-December (12 months) |
| Table 2: Characteristics of New Dialysis Patients (Form CMS-2728) | January-September (9 months) |
| Table 3: Mortality Summaries: All Dialysis Patients (SMR) and New Patients (2019 FY SMR) Table 4: Hospitalization Summary: Standardized Hospitalization Ratios (SHRs) Table 5: Transplantation Summary for Dialysis Patients (STR) Table 5: Summary for New Dialysis Patients (2019 SWR) Table 7: Anemia Management: Transfusion (STrR) | January-February, July-December (8 months) |
| Table 4: Readmission Summaries (SRR) | January 1-30, July-October (5 months) |
| Table 3: Categories of Death (3e-3i; 3p-3s) Table 5: Waitlist Summary for All Dialysis Patients (Patients Waitlisted) Table 10: Access-Related Infection Summaries for All Medicare Patients | January-February, July-October (6 months) |
| Table 6: Influenza Vaccination Summary for Medicare Dialysis Patients for August 2019-March 2020 flu season | January-February (2 out of 3 months) |
| Table 7: Anemia Management: Hemoglobin Table 8: Dialysis Adequacy Summaries: HD Kt/V, UFR, and Albumin (HD and PD) Table 9: Mineral Metabolism Summaries: Calcium, Phosphorous, Hypercalcemia Table 10: Vascular Access Information for All Dialysis Patients and at Incidence (VA types and SFR) | July-August (2 months) |

Region Highlights

Patient Characteristics: On December 31st, 2020, 12.7% of patients in this region were treated in a nursing home during the year, compared to 12.0% nationally. See **Table 1** for detailed summaries of all patients treated during 2017-2020 in this region.

Form CMS-2728 collected data from 7,922 incident patients in this region in 2020. **Table 2** describes certain important characteristics of these patients at the time of their first outpatient dialysis session, including patients' demographics, medical coverage, primary cause of ESRD, modality, pre-treatment nephrological care, transplant options, and vascular access type. In 2020, the average age of patients in this region at incidence was 64 years, compared to the national average of 64 years. Among the incident patients in this region in 2020, 82.3% were informed of their transplant options, compared to 83.5% nationally. Also in 2020, 14.9% of incident patients in this region were not under the care of a nephrologist prior to ESRD therapy, compared to 15.9% nationally.

Mortality: There were 6,536 deaths among the patients treated in this region during 2020, while 6,556 would be expected based on their age, race, ethnicity, sex, diabetes status, duration of ESRD, nursing home status, BMI and comorbidities at incidence, as well as state population death rates. The Standardized Mortality Ratio (SMR) of observed to expected deaths is 0.96, which is 4% lower than expected. Of the deaths in this region in 2020, 20% were preceded by withdrawal from dialysis, compared to the national average of 17%. See **Table 3** of this profile for more detailed mortality statistics during 2017-2020 in this region.

First Year Mortality: There were 1,723 deaths among the incident patients treated in this region during 2019, while 1,705 would be expected based on their age, race, ethnicity, sex, diabetes status, nursing home status, BMI and comorbidities at incidence, as well as state population death rates. The First Year Standardized Mortality Ratio (SMR) of observed to expected deaths is 0.98, which is 2% lower than expected. Of the deaths among incident patients in this region in 2019, 33% were preceded by withdrawal from dialysis, compared to the national average of 29%. See **Table 3** of this profile for more detailed first year mortality statistics during 2017-2019 in this region.

Hospitalization: The Standardized Hospitalization Ratio (SHR) of observed to expected hospital admissions for patients in this region during 2020 is 0.96, indicating that these patients had 4% fewer admissions than expected based on characteristics of patients treated in this region. The Standardized Readmission Ratio (SRR) of observed to expected hospital readmissions in this region during 2020 is 1.06, indicating that these patients had 6% more readmissions than expected. See **Table 4** of this profile for additional hospitalization statistics during 2017-2020 in this region.

Transplantation: 1,117 patients under age 75 in this region during 2020 received their first transplant, while 1,099 would be expected based on the age of these patients. The Standardized Transplantation Ratio (STR) of observed to expected number of patients transplanted for this region is 1.13, which is 13% higher than expected. See **Table 5** of this profile for additional transplantation statistics during 2017-2020 in this region.

Kidney Transplant Waitlist for Prevalent Patients: The 2020 age-adjusted percent waitlisted in this region is 18.3%, which is 0.9% higher than the national adjusted percentage. See **Table 5** of this profile for additional transplant waitlist statistics during 2017-2020 in this region.

Kidney Transplant Waitlist for Incident Patients: The 2019 Standardized Waitlist Ratio (SWR) in this region is 1.04, which is 4% more patients waitlisted or living donor transplants than expected in this region. See **Table 5** of this profile for additional transplant waitlist statistics during 2017-2019 in this region.

Influenza Vaccination: On December 31, 2020, 82% of the Medicare dialysis patients treated in this region were vaccinated against influenza between August 1 and December 31, 2020, compared to 81% nationally. This difference is not statistically significant (p>=0.05) and is plausibly due to random chance. See **Table 6** of this profile for more information about vaccinated patients during 2017-2020 in this region.

Anemia Management: In 2020, 20.0% of eligible hemodialysis patient-months in this region had a hemoglobin value below 10 g/dL, compared to 20.2% nationally. Also in 2020, 22.6% of eligible peritoneal dialysis patient-months had a hemoglobin value below 10 g/dL, compared to 23.1% nationally. See **Table 7** of this profile for additional anemia management statistics in this region during 2017-2020.

Dialysis Adequacy: Of the eligible hemodialysis patient-months in this region in 2020, 98% had a Kt/V >=1.2, compared to 97% nationally. The percentage of eligible peritoneal dialysis (PD) patients in this region with Kt/V >=1.7 in 2020 was not calculated due to data limitations. See **Table 8** of this profile for more information on dialysis during 2017-2020 in this region.

Mineral Metabolism: In 2020, 15% of eligible patient-months in this region had a serum phosphorus value >7.0 mg/dL, compared to 16% nationally. Also in 2020, 1.1% of eligible patient-months in this region had a calcium uncorrected value >10.2 mg/dL, compared to 1.0% nationally. See **Table 9** of this profile for more mineral metabolism summaries in this region during 2017-2020.

Vascular Access: In 2020, 10% of the incident hemodialysis patients in this region had an arteriovenous (AV) fistula in use, compared to 9% in the nation. This region's 2020 Standardized Fistula Rate (SFR) for prevalent patients is 64%, which is 2% higher than the national SFR. The long-term catheter rate among prevalent patients receiving hemodialysis treatment in this region in 2020 was not calculated due to data limitations. See **Table 10** of this profile for additional information about vascular access in this region during 2017-2020.

The tables below provide quarterly updates of COVID-19 patient counts, deaths, and hospitalizations among Medicare dialysis patients (Table C1) and Medicare nursing home (NH) dialysis patients (Table C2) in 2020 Q1-Q4.

TABLE C1. COVID in Medicare Dialysis Patients, 2020 $^{\ast 1}$

| | | | This F | Region | | United States |
|---|--|-------------|-------------|-------------|-------------|----------------------|
| | Measure Name | Q1: Jan-Mar | Q2: Apr-Jun | Q3: Jul-Sep | Q4: Oct-Dec | Q4: Oct-Dec |
| 1 | Medicare dialysis patients treated during the quarter (n) | 45,461 | 44,585 | 43,841 | 41,283 | 410,942 |
| 2 | Patients ever identified with COVID [prior to or during current quarter] (n) | 253 | 1,946 | 2,806 | 4,972 | 49,568 |
| | Patients ever identified with COVID (% of 1) | 0.6 | 4.4 | 6.4 | 12.0 | 12.1 |
| 3 | Patients first identified with COVID in current quarter (n) | 253 | 1,720 | 1,345 | 2,641 | 26,356 |
| | Patients first identified with COVID in current quarter (% of 1) | 0.6 | 3.9 | 3.1 | 6.4 | 6.4 |
| | Deaths among Medicare patients | | | | | |
| 4 | Deaths (n) | 2,174 | 2,233 | 2,124 | 2,430 | 24,316 |
| 5 | Deaths among patients ever identified with COVID (n) | 31 | 451 | 404 | 674 | 6,743 |
| | Deaths among patients ever identified with COVID (% of 4) | 1.4 | 20.2 | 19.0 | 27.7 | 27.7 |
| | Hospitalizations *2 among Medicare patients | | | | | |
| 6 | Hospitalizations (n) | 13,746 | 11,611 | 12,113 | 11,300 | 112,741 |
| 7 | Hospitalizations among patients ever identified with COVID (n) | 236 | 1,518 | 1,669 | 2,932 | 29,275 |
| | Hospitalizations among patients ever identified with COVID (% of 6) | 1.7 | 13,1 | 13.8 | 25.9 | 26.0 |

TABLE C2. COVID in Medicare Dialysis Patients Treated in Nursing Home (NH) Facilities, 2020 *1

| | | | This I | | United States | |
|---|--|-------------|-------------|-------------|---------------|-------------|
| | Measure Name | Q1: Jan-Mar | Q2: Apr-Jun | Q3: Jul-Sep | Q4: Oct-Dec | Q4: Oct-Dec |
| 1 | Medicare NH dialysis patients treated during the quarter (n) | 5,275 | 4,314 | 4,043 | 3,689 | 36,821 |
| 2 | Patients ever identified with COVID [prior to or during current quarter] (n) | 67 | 857 | 970 | 1,451 | 14,489 |
| | Patients ever identified with COVID (% of 1) | 1.3 | 19.9 | 24.0 | 39.3 | 39.3 |
| 3 | Patients first identified with COVID in current quarter (n) | 67 | 796 | 414 | 738 | 7,378 |
| | Patients first identified with COVID in current quarter (% of 1) | 1.3 | 18.5 | 10.2 | 20.0 | 20.0 |
| | Deaths among Medicare NH patients | | | | | |
| 4 | Deaths (n) | 690 | 670 | 544 | 630 | 6,314 |
| 5 | Deaths among patients ever identified with COVID (n) | 9 | 213 | 152 | 244 | 2,448 |
| | Deaths among patients ever identified with COVID (% of 4) | 1.3 | 31.8 | 27.9 | 38.7 | 38.8 |
| | Hospitalizations *2 among Medicare NH patients | | | | | |
| 6 | Hospitalizations (n) | 3,370 | 2,497 | 2,416 | 2,215 | 22,116 |
| 7 | Hospitalizations among patients ever identified with COVID (n) | 62 | 657 | 590 | 919 | 9,185 |
| | Hospitalizations among patients ever identified with COVID (% of 6) | 1.8 | 26.3 | 24.4 | 41.5 | 41.5 |

^[*1] Includes patients treated in a nursing home at least one day during the quarter and have Medicare as primary insurer or with a Medicare Advantage plan. See Guide,

^[*1] Includes patients with Medicare as primary insurer or with a Medicare Advantage plan. See Guide, Section XVII.
[*2] Hospitalization is defined as having at least one day in a hospital from Medicare inpatient claims during the reporting period.

^[*2] Hospitalization is defined as having at least one day in a hospital from Medicare inpatient claims during the reporting period.

TABLE 1: Summaries for All Dialysis Patients Treated as of December 31st of each Year 1, 2017-2020

| | | | This I | Region | | United States |
|----|---|--------|--------|--------|--------|---------------|
| | Measure Name | 2017 | 2018 | 2019 | 2020 | 2020 |
| 1a | Patients treated on 12/31 of year (n) | 47,162 | 48,056 | 48,935 | 47,355 | 473,549 |
| 1b | Average age (years) | 62.4 | 62.6 | 62.9 | 62.9 | 62.6 |
| 1c | Age (% of 1a; sums to 100%) | | | | | |
| | < 18 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 |
| | 18-64 | 52.2 | 51.5 | 50.5 | 50.6 | 51.4 |
| | 65+ | 47.5 | 48.2 | 49.2 | 49.2 | 48.4 |
| 1d | Female (% of 1a) | 42.5 | 42.2 | 42.1 | 42.0 | 42.4 |
| 1e | Race (% of 1a; sums to 100%)*2 | | | | | |
| | African American | 28.5 | 28.3 | 28.0 | 28.4 | 34.6 |
| | Asian/Pacific Islander | 5.8 | 5.9 | 6.0 | 6.3 | 6.5 |
| | Native American | 1.8 | 1.8 | 1.9 | 1.9 | 1.2 |
| | White | 63.5 | 63.6 | 63.6 | 63.0 | 57.3 |
| | Other/Unknown/Missing | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 |
| 1f | Ethnicity (% of 1a; sums to 100%) | | | | | |
| | Hispanic | 16.9 | 17.0 | 17.0 | 17.2 | 19.0 |
| | Non-Hispanic | 82.8 | 82.7 | 82.7 | 82,3 | 80.6 |
| | Unknown | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 |
| 1g | Cause of ESRD (% of 1a; sums to 100%) | | | | | |
| | Diabetes | 46.2 | 46.5 | 46.8 | 46.4 | 46.2 |
| | Hypertension | 26.6 | 26.9 | 26.8 | 26.9 | 30.1 |
| | Glomerulonephritis | 11.9 | 11.6 | 11.2 | 11.0 | 9.8 |
| | Other/Unknown | 14.8 | 14.6 | 14.6 | 14.9 | 13.1 |
| | Missing | 0.5 | 0.5 | 0.5 | 0.8 | 0.8 |
| 1h | Average duration of ESRD (years) | 4.9 | 4.9 | 5.0 | 5.1 | 5.1 |
| 1i | Years since start of ESRD (% of 1a; sums to 100%) | _ / / | • | | | |
| | <1 | 16.3 | 16.1 | 16.2 | 14.5 | 14.1 |
| | 1-2 | 17.5 | 17.5 | 17.2 | 17.6 | 17.3 |
| | 2-3 | 14.1 | 14.0 | 14.0 | 14.1 | 13.9 |
| | 3-6 | 25.8 | 26.2 | 26.3 | 26.7 | 26.8 |
| | 6+ | 26.3 | 26.3 | 26.3 | 27.1 | 27.9 |
| 1j | Nursing facility patients *3 (% of 1a) | 15.9 | 15.9 | 15.7 | 12.7 | 12.0 |
| 1k | Modality (% of 1a; sums to 100%) *4 | | | | | |
| · | In-center hemodialysis | 87.1 | 86.6 | 85.7 | 84.9 | 85.4 |
| | Home hemodialysis | 1.9 | 2.0 | 2.3 | 2.7 | 2.6 |
| | Continuous ambulatory peritoneal dialysis | 1.5 | 1.5 | 1.5 | 1.6 | 1.5 |
| | Continuous cycling peritoneal dialysis | 9.2 | 9.7 | 10.2 | 10.8 | 10.4 |
| | Other modality | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 |

n/a = not applicable.
[*1] See *Guide*, *Section IV*.

^{[*2] &#}x27;Asian' includes Indian sub-continent. 'Native American' includes Alaskan Native. 'White' includes Middle Eastern and Arab.

[*3] Includes patients who were treated at a nursing facility at any time during the year. The source of nursing facility history of patients is the Nursing Home Minimum

^[*4] In 2020, modality is as of October 31, 2020. Other modality includes other dialysis, uncertain modality, and patients not on dialysis but still temporarily assigned to the facility (discontinued dialysis, recovered renal function, and lost to follow up).

TABLE 2: Characteristics of New Dialysis Patients *1 , 2017-2020 (Form CMS-2728)

| | | | This I | Region | | United States | |
|----|--|--------|--------|--------|--------|---------------|--|
| | Measure Name | 2017 | 2018 | 2019 | 2020 ^ | 2020 ^ | |
| | Patient Characteristics | | 1 | | | | |
| 2a | Total number of patients with forms (n) | 11,884 | 12,008 | 12,064 | 7,922 | 79,217 | |
| 2b | Age (average years [0-95]) *2 | 63.6 | 63.9 | 63.9 | 63.7 | 63.5 | |
| 2c | Female (% of 2a) | 41.4 | 41.2 | 41.2 | 41.0 | 41.6 | |
| 2d | Race *3 (% of 2a; sums to 100%) | | | | | | |
| | African American | 21.1 | 20.9 | 21.3 | 22.9 | 28.6 | |
| | Asian/Pacific Islander | 5.5 | 5.5 | 5.8 | 6.0 | 6.1 | |
| | Native American | 1.6 | 1.7 | 1.8 | 1.8 | 1.1 | |
| | White | 71.5 | 71.7 | 70.9 | 68.9 | 63.8 | |
| | Other/Unknown/Missing | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | |
| 2e | Hispanic (% of 2a) | 14.0 | 14.1 | 14.7 | 15.1 | 16.4 | |
| 2f | Primary cause of ESRD (% of 2a; sums to 100%) | | | | | | |
| | Diabetes | 48.9 | 49.2 | 48.8 | 48.2 | 48.1 | |
| | Hypertension | 27.0 | 27.1 | 26.3 | 26.5 | 29.5 | |
| | Glomerulonephritis | 8.1 | 7.9 | 7.5 | 7.6 | 6.5 | |
| | Other/Missing | 16.0 | 15.9 | 17.5 | 17.7 | 15.9 | |
| 2g | Medical Coverage *4 (% of 2a; sums to 100%) | | | | | | |
| | Employer group only | 12.6 | 12.4 | 12.3 | 13.1 | 12.7 | |
| | Medicare only | 32.5 | 33.4 | 33.2 | 33.2 | 35.0 | |
| | Medicaid only | 12.9 | 12.8 | 13.5 | 13.7 | 13.7 | |
| | Medicare and Medicaid only | 12.5 | 12.5 | 12.0 | 12.1 | 12.0 | |
| | Medicare and Other | 18.3 | 17.9 | 17.7 | 16.5 | 14.5 | |
| | Other/Unknown | 7.7 | 7.5 | 7.8 | 8.0 | 7.9 | |
| | None | 3.4 | 3.5 | 3.5 | 3.3 | 4.2 | |
| 2h | Body Mass Index *5 (Median; Weight/Height^2) | | | | | | |
| | Male | 28.1 | 28.2 | 28.2 | 28.2 | 28.1 | |
| | Female | 29.2 | 29.2 | 29.2 | 29.3 | 29.2 | |
| 2i | Employment *6 | | | | | | |
| | Six months prior to ESRD treatment | 36.1 | 36.7 | 37.5 | 38.5 | 36.8 | |
| | At first ESRD treatment | 26.5 | 27.2 | 27.0 | 27.0 | 24.9 | |
| 2j | Primary Modality (% of 2a; sums to 100%) | | | | | | |
| | Hemodialysis | 88.9 | 88.0 | 87.4 | 86.1 | 86.4 | |
| | CAPD/CCPD | 11.1 | 12.0 | 12.6 | 13.9 | 13.6 | |
| | Other/Unknown/Missing | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 2k | Number of incident hemodialysis patients (n) | 10,623 | 10,626 | 10,611 | 6,847 | 68,469 | |
| 21 | Access used at first outpatient dialysis (% of 2k; sums to 100%) | | | | | | |
| | Arteriovenous fistula | 18.6 | 17.8 | 16.7 | 15.8 | 14.1 | |
| | Arteriovenous graft | 3.1 | 3.0 | 2.9 | 2.6 | 2.7 | |
| | Catheter | 78.2 | 79.0 | 80.0 | 81.2 | 82.9 | |
| | Other/Unknown/Missing | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | |
| 2m | Arteriovenous fistulae placed (% of 2k) *7 | 34.5 | 32.8 | 30.2 | 27.5 | 25.2 | |

(continued)

TABLE 2 (continued): Characteristics of New Dialysis Patients *1, 2017-2020 (Form CMS-2728)

| | | , | This I | Region | | United States |
|----|---|-------|--------|--------|--------|---------------|
| | Measure Name | 2017 | 2018 | 2019 | 2020 ^ | 2020 ^ |
| | Average Lab Values Prior to Dialysis *2 | 1 | | | | |
| 2n | Hemoglobin (g/dL [5-20]) | 9.4 | 9.4 | 9.4 | 9.4 | 9.3 |
| 2o | Serum Albumin (g/dL [0.8-6.0]) | 3.2 | 3.3 | 3.3 | 3.3 | 3.3 |
| 2p | Serum Creatinine (mg/dL [0-33]) | 6.4 | 6.3 | 6.3 | 6.4 | 6.5 |
| 2q | GFR (ml/min [0-30]) | 10.7 | 10.7 | 10.8 | 10.6 | 10.6 |
| | Care Prior to ESRD Therapy | | | | | |
| 2r | Received ESA prior to ESRD (% of 2a) | 15.3 | 16.3 | 17.1 | 16.9 | 16.3 |
| 2s | Pre-ESRD nephrologist care (% of 2a; sums to 100%) | | | | | |
| | No | 18.7 | 17.2 | 15.5 | 14.9 | 15.9 |
| | Yes, <6 months | 14.2 | 14.9 | 16.3 | 16.9 | 17.4 |
| | Yes, 6-12 months | 20.1 | 20.5 | 20.4 | 20.0 | 20.0 |
| | Yes, >12 months | 34.9 | 35.8 | 35.6 | 35.6 | 32.5 |
| | Unknown | 12.1 | 11.6 | 12.2 | 12.6 | 14.3 |
| 2t | Informed of transplant options (% of 2a) | 86.9 | 86.4 | 82.8 | 82.3 | 83.5 |
| 2u | Patients not informed of transplant options (n) | 1,382 | 1,441 | 1,929 | 1,305 | 13,051 |
| 2v | Reason not informed (% of 2u; may not sum to 100%) *8 | | | | | |
| | Medically unfit | 35.4 | 31.1 | 19.7 | 18.8 | 16.2 |
| | Unsuitable due to age | 24.4 | 22.1 | 13.9 | 12.6 | 11.9 |
| | Psychologically unfit | 2.8 | 2.6 | 1.5 | 1.5 | 1.3 |
| | Patient declined information | 2.2 | 1.5 | 1.1 | 1.0 | 0.9 |
| | Patient has not been assessed | 39.8 | 47.4 | 66.7 | 69.1 | 72.4 |
| | Comorbid Conditions | | | | | |
| 2w | Pre-existing Comorbidity (% yes of 2a) | | | | | |
| | Congestive heart failure | 28.8 | 29.2 | 29.5 | 28.2 | 28.1 |
| | Atherosclerotic heart disease *9 | 14.6 | 14.1 | 13.9 | 13.3 | 12.5 |
| | Other cardiac disorder *9 | 19.9 | 20.8 | 21.6 | 20.9 | 20.7 |
| | CVD, CVA, TIA | 8.5 | 8.7 | 8.9 | 8.8 | 8.8 |
| | Peripheral vascular disease | 10.1 | 10.0 | 10.1 | 9.3 | 8.9 |
| | History of hypertension | 87.5 | 87.9 | 87.8 | 87.9 | 88.5 |
| | Diabetes*9 | 63.1 | 64.1 | 64.0 | 63.7 | 64.5 |
| | Diabetes on insulin | 42.8 | 43.5 | 43.8 | 43.1 | 43.3 |
| | COPD | 9.3 | 9.5 | 9.5 | 9.1 | 8.9 |
| | Current smoker | 6.7 | 7.0 | 7.1 | 6.9 | 6.9 |
| | Cancer | 7.5 | 7.7 | 7.9 | 7.7 | 7.2 |
| | Alcohol dependence | 1.7 | 1.8 | 1.9 | 1.9 | 1.8 |
| | Drug dependence | 1.3 | 1.5 | 1.7 | 1.7 | 1.6 |
| | Inability to ambulate | 6.7 | 6.7 | 6.5 | 6.0 | 6.4 |
| | Inability to transfer | 3.4 | 3.5 | 3.2 | 3.1 | 3.4 |
| 2x | Average number of comorbid conditions | 3.1 | 3.2 | 3.2 | 3.1 | 3.1 |

n/a= not applicable.

^[^] Includes medical evidence forms submitted between January and September 2020. See Data Limitations in FY 2022 Profiles on pages 1-2 for more information.

^[*2] For continuous variables, all summaries are computed based only on responses in range indicated in brackets for the variable.

^{*3] &#}x27;Asian' includes Indian sub-continent. 'Native American' includes Alaskan Native. 'White' includes Middle Eastern and Arab.

^[*4] Medicare and Other excludes patients with Medicare and Medicaid only. 'Other/Unknown' includes patients with unknown status and patients receiving medical benefits under other health insurance plans or plans that are not covered in the categories above.

^[*5] The median BMI is computed for adult patients at least 20 years old with height, weight, and BMI values in acceptable ranges. Acceptable range for height, weight, and BMI are 122-208cm, 32-318 kg and 10-55 respectively.

^[*6] Full-time, part-time, or student (% of 18-60 year olds).

^[*7] Includes all patients with AV fistulae, regardless of whether they recieved their hemodialysis treatments using their fistulae.

[*8] Values may not sum to exactly 100% because of patients for which multiple reasons are selected, or when other or no reason is selected.

^{[*9] &#}x27;Atherosclerotic heart disease' includes ischemic heart disease (coronary artery disease) and myocardial infarction. 'Other cardiac disorder' includes cardiac arrest, cardiac dysrhythmia, and pericarditis. 'Diabetes' includes patients with diabetes as the primary cause of ESRD.

TABLE 3: Mortality Summary for All Dialysis Patients (2017-2020) A New Dialysis Patients (2017-2019) A New Dialysis Patients (2017-2019)

| | | · | This Region | | | | | |
|----|---|--------|-------------|--------|--------|---------------|--|--|
| | Measure Name | 2017 | 2018 | 2019 | 2020 ^ | United States | | |
| | All Dialysis Patients | | | ı | | 2020 ^ | | |
| 3a | Patients (n=number) | 64,736 | 66,307 | 67,598 | 66,118 | 723,586 | | |
| 3b | Patient years (PY) at risk (n) | 46,670 | 47,620 | 48,499 | 32,297 | 337,406 | | |
| 3c | Deaths (n) | 8,166 | 8,298 | 8,359 | 6,536 | 68,420 | | |
| 3d | Expected deaths (n) | 8,188 | 8,368 | 8,458 | 6,556 | 68,424 | | |
| 3e | Withdrawal from dialysis prior to death (% of 3c) | 30.3 | 30.8 | 31.3 | 19.7 | 16.6 | | |
| 3f | Deaths due to infections (% of 3c) | 11.4 | 11.5 | 10.9 | 7.6 | 7.2 | | |
| 3g | Deaths due to cardiac causes (% of 3c) | 44.9 | 45.1 | 46.3 | 30.6 | 31.0 | | |
| 3h | Deaths due to liver disease (% of 3c) | 1.6 | 1.5 | 1.6 | 1.0 | 1.0 | | |
| 3i | Dialysis unrelated deaths *2 (n; excluded from SMR) | 56 | 54 | 58 | 26 | 271 | | |
| 3j | Standardized Mortality Ratio (SMR; 3c /3d) | 0.97 | 0.97 | 0.97 | 0.96 | 0.99 | | |
| 3k | P-value *3 | | | | | n/a | | |
| | New Dialysis Patients | 2017 | 2018 | 2019^ | | 2019 ^ | | |
| 31 | Patients (n=number) | 11,884 | 12,008 | 12,064 | | 120,644 | | |
| 3m | Patient years (PY) at risk (n) | 10,547 | 10,681 | 8,532 | | 85,320 | | |
| 3n | Deaths (n) | 2,155 | 2,119 | 1,723 | | 17,228 | | |
| 3о | Expected deaths (n) | 2,163 | 2,119 | 1,705 | | 17,052 | | |
| 3р | Withdrawal from dialysis prior to death (% of 3n) | 33.2 | 33.2 | 32.5 | | 29.1 | | |
| 3q | Deaths due to infections (% of 3n) | 10.9 | 10.2 | 9.7 | * | 9.2 | | |
| 3r | Deaths due to cardiac causes (% of 3n) | 40.2 | 41.3 | 40.2 | | 41.7 | | |
| 3s | Deaths due to liver disease (% of 3n) | 2.8 | 2.7 | 3.0 | | 2.8 | | |
| 3t | Standardized Mortality Ratio (SMR; 3n /3o) | 0.95 | 0.97 | 0.98 | | 1.01 | | |
| 3u | P-value *3 | | | | | n/a | | |

n/a = not applicable.

^[^] Data from March through June 2020 are excluded from all calculations due to data exceptions. In 2020, for measures regarding causes of death (3e-3i and 3p-3s), cause of death information is complete through October 2020 due to data availability. See *Data Limitations in FY 2022 Profiles* on pages 1-2 for more information.

^[*1] See Guide, Section VI.

[*2] Defined as deaths due to street drugs and accidents unrelated to treatment.

[*3] Ratios within the range 0.95 to 1.05 will not have a p-value. A p-value >=0.05 indicates that the ratio is >1.05 or <0.95 plausibly due to random chance.

TABLE 4: Hospitalization Summary for Medicare Dialysis Patients *1 , 2017-2020 ^

| | | | This I | Region | | United States |
|----|---|---------|---------|---------|---------|----------------------|
| | Measure Name | 2017 | 2018 | 2019 | 2020 ^ | 2020 ^ |
| | Medicare Dialysis Patients | | | | | |
| 4a | Medicare dialysis patients (n) | 53,965 | 55,089 | 56,317 | 54,249 | 582,377 |
| 4b | Patient years (PY) at risk (n) | 37,902 | 38,657 | 39,342 | 26,141 | 265,425 |
| | Days Hospitalized Statistics | | | | | |
| 4c | Total days hospitalized (n) | 428,489 | 433,478 | 432,366 | 294,053 | 3,090,826 |
| 4d | Expected days hospitalized (n) | 440,824 | 447,195 | 447,563 | 303,362 | 3,093,246 |
| 4e | Standardized Hospitalization Ratio for Days (4c/4d) | 0.92 | 0.93 | 0.92 | 0.92 | 0.99 |
| 4f | P-value *2 | 0.029 | 0.053 | 0.109 | 0.122 | n/a |
| | Admission Statistics | | | | | |
| 4g | Total admissions (n) | 58,971 | 59,889 | 60,128 | 38,950 | 399,752 |
| 4h | Expected total admissions (n) | 59,391 | 60,344 | 60,620 | 39,234 | 399,908 |
| 4i | Standardized Hospitalization Ratio for Admissions (4g/4h) | 0.97 | 0.97 | 0.96 | 0.96 | 0.99 |
| 4j | P-value *2 | | | | | n/a |
| 4k | Patients with septicemia (% of 4a) | 12.5 | 12.7 | 12.4 | 13.5 | 13.1 |
| 41 | One day admissions (% of 4g) | 10.0 | 9.7 | 9.6 | 9.1 | 8.9 |
| 4m | Average length of stay (days per admission) | 7.1 | 7.1 | 7.0 | 7.4 | 7.7 |
| 4n | Admissions that originate in the ED (% of 4g) | 81.3 | 81.9 | 82.3 | 83.3 | 84.7 |
| | Emergency Department (ED) Statistics | | | | | |
| 4o | Total ED visits (n) | 94,734 | 94,187 | 93,903 | 56,327 | 581,029 |
| 4p | Expected total ED visits (n) | 95,971 | 95,633 | 95,435 | 57,382 | 582,381 |
| 4q | Standardized Hospitalization Ratio for ED (4n/4o) | 0.96 | 0.96 | 0.96 | 0.96 | 0.99 |
| 4r | P-value *2 | | | | | n/a |
| 4s | Medicare *3 dialysis patients with ED visit (%) | 65.0 | 65.2 | 64.6 | 55.0 | 53.2 |
| 4t | ED visits that result in hospitalization (% of 40) | 41.8 | 42.4 | 42.2 | 44.1 | 45.1 |
| | Readmission Statistics | | | | | |
| 4u | Index discharges (n) | 55,130 | 54,999 | 53,889 | 20,676 | 206,758 |
| 4v | Total readmissions (n) | 14,760 | 14,669 | 14,460 | 5,513 | 55,127 |
| 4w | Expected total readmissions (n) | 14,240 | 14,138 | 13,924 | 5,137 | 51,369 |
| 4x | Standardized Readmission Ratio (SRR; 4v/4w) | 1.01 | 1.02 | 1.01 | 1.06 | 1.07 |

n/a = not applicable.

[^] Data from March through June 2020 are excluded from all calculations due to data exceptions. Readmission Statistics are further limited to index discharges between January 1-30, 2020 and July-October 2020. See *Data Limitations in FY 2022 Profiles* on pages 1-2 for more information.

[*1] The ED statistics include patients with Medicare as primary insurer and exclude patients with Medicare Advantage plans. All other summaries include patients with Medicare as primary insurer or with a Medicare Advantage plan; see *Guide, Section VII*.

[*2] Ratios within the range 0.95 to 1.05 will not have a p-value. A p-value >=0.05 indicates that the ratio is >1.05 or <0.95 plausibly due to random chance.

^[*3] Medicare Advantage patients are excluded from this summary.

TABLE 5: Transplantation and Waitlist Summary for All Dialysis Patients (2017-2020 $^{^{^{^{^{^{^{3}}}}}}}$) & New Dialysis Patients (2017-2019 $^{^{^{^{^{^{^{3}}}}}}}$) under Age 75 $^{^{*1}}$

| | | | This I | Region | | |
|----|--|---------|---------|---------|---------|---------------|
| | Measure Name | 2017 | 2018 | 2019 | 2020 ^ | United States |
| | Transplantation: All Transplants | ĺ | 1 | | | 2020 ^ |
| 5a | Eligible patients (n) | 51,574 | 52,599 | 53,303 | 52,069 | 569,968 |
| 5b | Transplants (n) | 1,592 | 1,686 | 1,852 | 1,250 | 12,631 |
| | Transplantation: First Transplants | | | | | |
| 5c | Eligible patients (n) | 47,930 | 48,941 | 49,624 | 48,463 | 529,715 |
| 5d | Patient years (PY) at risk (n) | 34,734 | 35,326 | 35,779 | 23,662 | 246,788 |
| 5e | Actual 1st transplants *2 (n) | 1,394 | 1,496 | 1,645 | 1,117 | 11,275 |
| 5f | Expected 1st transplants (n) | 1,343 | 1,445 | 1,599 | 1,099 | 11,467 |
| 5g | Standardized Transplantation Ratio (STR; 5e/5f) | 1.21 | 1.18 | 1.17 | 1.13 | 0.98 |
| 5h | P-value *3 | 0.045 | < 0.01 | 0.010 | 0.051 | n/a |
| | Waitlist: All Dialysis Patients | | | | • | |
| 5i | Eligible patients (n) | 51,501 | 52,446 | 53,392 | 47,697 | 476,969 |
| 5j | Patient-months at risk (n) *4 | 436,117 | 442,417 | 447,911 | 222,569 | 2,225,694 |
| 5k | Patient-months on the waitlist (% of 5j)*4 | 20.8 | 19.8 | 19.1 | 18.4 | 18.0 |
| 51 | Patient-months on the waitlist by subgroup (%) *4 *5 | | | | | |
| | Age < 40 | 31.6 | 30.7 | 30.1 | 29.2 | 28.2 |
| | Age 40-74 | 19.5 | 18.6 | 17.8 | 17.3 | 16.9 |
| | Male | 21.9 | 21,0 | 20.2 | 19.5 | 19.2 |
| | Female | 19.2 | 18.1 | 17,4 | 16.8 | 16.1 |
| | African American | 21.0 | 19.8 | 19.0 | 18.3 | 16.9 |
| | Asian/Pacific Islander | 30.0 | 28.8 | 27.5 | 26.5 | 26.6 |
| | Native American | 18,2 | 16,3 | 14.7 | 14.0 | 11.1 |
| | White, Hispanic | 22.0 | 20.5 | 19.8 | 19.0 | 19.6 |
| | White, Non-Hispanic | 19.9 | 19.1 | 18.3 | 17.7 | 16.8 |
| | Other/Unknown race | 22.6 | 22.1 | 22.3 | 20.7 | 21.4 |
| | Diabetes | 16.4 | 15.6 | 15.1 | 14.9 | 14.7 |
| | Non-diabetes | 24.5 | 23.4 | 22.5 | 21.6 | 20.8 |
| | Previous kidney transplant | 35.0 | 32.6 | 31.5 | 30.4 | 30.7 |
| | No previous kidney transplant | 19.5 | 18.7 | 18.0 | 17.4 | 17.0 |
| | <2 years since start of ESRD | 15.8 | 15.5 | 15.4 | 15.1 | 13.7 |
| | 2-4 years since start of ESRD | 25.7 | 24.5 | 23.6 | 22.8 | 22.4 |
| | 5+ years since start of ESRD | 21.5 | 19.8 | 18.5 | 17.7 | 18.2 |
| 5m | Age-adjusted percentage of patient-months waitlisted | 20.5 | 19.6 | 18.9 | 18.3 | 17.4 |
| | Waitlist: New Dialysis Patients | 2017 | 2018 | 2019 ^ | | 2019 ^ |
| 5n | Eligible Patients (n) | 7,700 | 7,718 | 7,773 | | 77,730 |
| 5o | Patient-years (PY) at risk (n) | 6,851 | 6,856 | 6,926 | | 69,257 |
| 5p | First waitlist events (n) *6 | 713 | 755 | 473 | | 4,732 |
| 5q | Expected 1st waitlist events (n) *6 | 679 | 752 | 509 | | 5,089 |
| 5r | Standardized Waitlist Ratio (SWR; 5p/5q)*6 | 1.20 | 1.11 | 1.04 | | 0.92 |
| 5s | P-value *3 | 0.066 | 0.052 | | | n/a |

n/a = not applicable.

^[^] Data from March through June 2020 are excluded from all calculations due to data exceptions. Summaries for Waitlist: All Dialysis Patients also exclude data between November and December 2020 due to data exceptions. See *Data Limitations in FY 2022 Profiles* on pages 1-2 for more information.

^[*1] See Guide Section VIII (Transplantation) and Section IX (Waitlist).

^[*2] Among first transplants that occurred after the start of dialysis from 2017-2020, 3.9% of transplants in the U.S. were not included because the transplant occurred less than 91 days after the start of ESRD and 0.9% because the patient was not assigned to a facility at time of transplant.

^[*3] Ratios within the range 0.95 to 1.05 will not have a p-value. A p-value greater than or equal to 0.05 indicates that the standardized ratio is greater than 1.05 or less than 0.95 plausibly due to random chance.

^[*4] A patient may be counted up to 12 times per year.

^[*5] The waitlist percentage for each subgroup is calculated as a rate of wailtilsted patient-months to patient-months at risk in each subgroup. A missing value indicates that there were no eligible patients in the subgroup.

^[*6] An event is defined as a waitlisting or living-donor transplant.

TABLE 6: Influenza Vaccination Summary for Medicare Dialysis Patients and All Dialysis Patients *1 , Flu Seasons August 2017-December 2020

| | | | This I | Region | | |
|----|---|--------|--------|---------|---------|---------------|
| | Measure Name | 2017 | 2018 | 2019 ^ | 2020 | United States |
| | Medicare Dialysis Patients | 1 | 1 | 1 | ı | 2020 |
| 6a | Eligible patients on 12/31 (n) | 30,804 | 30,437 | 30,469 | 27,477 | 274,765 |
| 6b | Patients vaccinated between Aug. 1 and Dec. 31 (% of 6a) | 78.9 | 79.2 | 78.0 | 82.0 | 81.4 |
| 6c | P-value *2 (for 6b compared to U.S. value) *3 | 0.081 | 0.040 | 0.070 | 0.070 | n/a |
| | | | | | | 2019 ^ |
| 6d | Patients vaccinated between Aug. 1 and Mar. 31 of following | 79.8 | 79.9 | 78.8 | | 78.2 |
| | year (% of 6a) | | | | | |
| 6e | P-value *2 (for 6d compared to U.S. value) *4 | 0.041 | 0.045 | 0.093 | | n/a |
| 6f | Patients vaccinated between Aug. 1 and Dec. 31 by subgroup *5 | | | | | 2020 |
| | Age < 18 | 56.7 | 56.9 | 57.6 | 58.7 | 65.4 |
| | Age 18-39 | 71.2 | 72.0 | 71.3 | 73.2 | 72.3 |
| | Age 40-64 | 76.6 | 77.1 | 75.9 | 79.5 | 79.1 |
| | Age 65-74 | 80.6 | 80.7 | 79.8 | 83.8 | 83.6 |
| | Age 75+ | 83.4 | 83.5 | 81.8 | 86.8 | 86.2 |
| | Male | 78.4 | 78.9 | 77.7 | 81.7 | 81.1 |
| | Female | 79.4 | 79.7 | 78.4 | 82.4 | 81.8 |
| | African American | 74.7 | 74.9 | 73.6 | 76.9 | 77.5 |
| | Asian/Pacific Islander | 82.7 | 82.3 | 81.0 | 86.4 | 84.6 |
| | Native American | 77.4 | 76.4 | 75.3 | 79.6 | 82.2 |
| | White | 80.2 | 80.7 | 79.7 | 83.8 | 83.4 |
| | Other/unknown race | 73.1 | 76.1 | 74.7 | 80.0 | 78.6 |
| | Hispanic | 81.0 | 81.0 | 80.2 | 84.1 | 83.5 |
| | < 1 year since start of ESRD | 69.6 | 68.3 | 64.7 | 76.3 | 75.6 |
| | 1-2 years since start of ESRD | 77.9 | 78.6 | 77.2 | 80.3 | 79.6 |
| | 3+ years since start of ESRD | 81.7 | 82.0 | 81.5 | 83.6 | 83.0 |
| | All Dialysis Patients: Half Flu Season (Aug. 1-Dec. 31) | 2017 | 2018 | 2019 | 2020 ^^ | 2020 ^^ |
| бд | Eligible patients (n) | 61,710 | 63,435 | 62,723 | | |
| 6h | Patients vaccinated (% of 6g) | 53.5 | 77.8 | 76.1 | | |
| 6i | P-value *2(for 6h compared to U.S. value *6) | 0.077 | < 0.01 | 0.012 | | |
| 6j | Patients that declined vaccination (% of 6g) | 6.5 | 6.4 | 3.7 | | |
| 6k | Patients excluded due to medical contraindication (n) | 0.6 | 0.8 | 0.4 | | |
| | All Dialysis Patients: Full Flu Season | 2017 | 2018 | 2019 ^* | | 2019 ^* |
| | (Aug. 1-Mar. 31 of the following year) | | | | | |
| 6l | Eligible patients (n) | 66,055 | 67,044 | | | |
| 6m | Patients vaccinated (% of 6l) | 54.1 | 77.3 | | | |
| 6n | P-value *2 (for 6m compared to U.S. value *7) | 0.040 | 0.055 | | | |
| 6о | Patients that declined vaccination (% of 6l) | 6.0 | 6.1 | | | |
| 6р | Patients excluded due to medical contraindication (n) | 0.8 | 0.9 | | | |

^[^] Data from March 2020 are excluded from all calculations for Medicare patients (rows 6d-6e) due to data exceptions. See Data Limitations in FY 2022 Profiles on pages 1-2 for more information.

^[^^] Measures in rows 6g-6k are not calculated since data from September through December 2020 are unavailable. See Data Limitations in FY 2022 Profiles on pages

^[^*] Measures in rows 6l-7p are not calculated since data from January 2020 through March 2020 are excluded from all calculations due to data exceptions. See *Data Limitations in FY 2022 Profiles* on pages 1-2 for more information.

^[*1] Medicare Dialysis Patients are those treated on December 31 with Medicare as primary insurer. All Dialysis Patients are those treated for at least one full reporting month during the flu season; see Guide, Section VIII.

^[*2] A p-value greater than or equal to 0.05 indicates that the difference between percent of patients vaccinated at the region and national percentage is plausibly due to random chance.

^[*3] Compared to the U.S. value for that year and time period (08/01-12/31): 78% (2017), 78% (2018), 78% (2019), 81% (2020). [*4] Compared to the U.S. value for that year and time period (08/01-03/31): 79% (2017), 79% (2018), 78% (2019). [*5] A missing value indicates that there were no eligible patients in the subgroup. [*6] Compared to the U.S. value for that year and time period (8/1-12/31): 53% (2017), 77% (2018), 75% (2019).

^[*7] Compared to the U.S. value for that year and time period (8/1-3/31): 53% (2017), 77% (2018).

TABLE 7: Anemia Management Summaries for Adult Dialysis Patients *1 , 2017-2020

| | | ' | This I | Region | | United States |
|----|---|----------|---------|---------|---------|----------------------|
| | Measure Name | 2017 | 2018 | 2019 | 2020 ^^ | 2020 ^^ |
| | Hemoglobin and ESA for Adult Hemodialysis (HD) Patie | ents | | | | |
| 7a | Eligible HD patients (n) | 51,381 | 52,185 | 53,005 | 42,644 | 426,424 |
| 7b | Eligible HD patient-months (n) *2 | 484,693 | 492,967 | 498,719 | 82,352 | 823,521 |
| 7c | Average hemoglobin *3 (g/dL) (average of 7b) | 10.8 | 10.8 | 10.8 | 10.9 | 10.8 |
| 7d | Hemoglobin categories (% of 7b; sums to 100%) | | | | | |
| | <10 g/dL | 20.5 | 21.6 | 22.2 | 20.0 | 20.2 |
| | 10-<11 g/dL | 34.3 | 34.7 | 34.9 | 33.7 | 34.0 |
| | 11-12 g/dL | 30.2 | 29.5 | 29.0 | 30.6 | 30.5 |
| | >12 g/dL | 13.1 | 12.4 | 12.2 | 13.9 | 13.4 |
| | Missing/Out of range | 1.9 | 1.9 | 1.6 | 1.7 | 1.9 |
| 7e | ESA prescribed (% of 7b) | 74.2 | 74.2 | 75.1 | 74.0 | 74.7 |
| | Hemoglobin and ESA for Adult Peritoneal Dialysis (PD) | Patients | | | | |
| 7f | Eligible PD patients (n) | 6,464 | 6,824 | 7,343 | 5,548 | 55,477 |
| 7g | Eligible PD patient-months (n) *2 | 53,557 | 55,940 | 59,572 | 10,587 | 105,873 |
| 7h | Average hemoglobin *3 (g/dL) (average of 7g) | 11.0 | 10.9 | 10.9 | 10.9 | 10.9 |
| 7i | Hemoglobin categories (% of 7g; sums to 100%) | | | | | |
| | <10 g/dL | 22.2 | 23.0 | 23.1 | 22.6 | 23.1 |
| | 10-<11 g/dL | 28.9 | 29.1 | 29.1 | 28.6 | 28.9 |
| | 11-12 g/dL | 26.2 | 25.9 | 26.1 | 26.2 | 26.2 |
| | >12 g/dL | 19.5 | 18.8 | 18.7 | 19.6 | 18.8 |
| | Missing/Out of range | 3.3 | 3.2 | 3.0 | 3.0 | 3.0 |
| 7j | ESA prescribed (% of 7g) | 55.7 | 55.8 | 55.4 | 55.9 | 56.9 |
| | Standardized Transfusion Ratio (STrR) | 2017 | 2018 | 2019 | 2020 ^ | 2020 ^ |
| 7k | Adult Medicare patients (n) | 36,516 | 36,423 | 36,381 | 33,590 | 358,569 |
| 71 | Patient years (PY) at risk (n) | 23,363 | 23,253 | 23,006 | 14,817 | 149,947 |
| 7m | Total transfusions (n) | 7,680 | 7,526 | 7,131 | 4,958 | 51,759 |
| 7n | Expected total transfusions (n) | 7,887 | 7,727 | 7,341 | 5,092 | 51,604 |
| 7o | Standardized Transfusion Ratio*4 | 0.93 | 0.92 | 0.92 | 0.91 | 1.00 |
| 7p | P-value *5 | 0.072 | 0.076 | 0.094 | 0.087 | n/a |

n/a = not applicable.

^[^] Data from March through June 2020 are excluded from all calculations due to data exceptions. See *Data Limitations in FY 2022 Profiles* on pages 1-2 for more

^[^^] Includes data reported in July and August 2020 only due to data limitations. See *Data Limitations in FY 2022 Profiles* on pages 1-2 for more information. [*1] See *Guide, Section XI*. Transfusion summaries include adult Medicare Dialysis Patients only. [*2] Patients may be counted up to 12 times per year.

^[*3] Based on in-range values; see Guide for range values.

^[*4] Calculated as a ratio of observed transfusions to expected transfusions (7m to 7n); not shown if there are fewer that 10 patient-years at risk for transfusions.

[*5] Ratios within the range 0.95 to 1.05 will not have a p-value. A p-value greater than or equal to 0.05 indicates that the standardized ratio is greater than 1.05 or less than 0.95 plausibly due to random chance.

TABLE 8: Dialysis Adequacy Summaries for All Dialysis Patients *1 , 2017-2020 $^{\wedge}$

| | | | This I | Region | | United States |
|----|--|---------|---------|---------|---------|----------------------|
| | Measure Name | 2017 | 2018 | 2019 | 2020 ^^ | 2020 ^^ |
| | Adult Hemodialysis (HD) Adequacy | | | | ı | |
| 8a | Eligible HD patients (n) | 51,381 | 52,185 | 53,005 | 42,644 | 426,424 |
| 8b | Eligible HD patient-months (n) *2 | 484,693 | 492,967 | 498,719 | 82,352 | 823,521 |
| 8c | Average serum albumin (g/dL) (average of 8b) | 3.8 | 3.8 | 4.2 | 3.9 | 3.9 |
| 8d | Serum albumin categories (% of 8b; sums to 100%) | | | | | |
| | < 3.0 g/dL | 3.6 | 3.2 | 2.5 | 2.4 | 2.5 |
| | 3.0-<3.5 g/dL | 14.5 | 12.8 | 10.4 | 10.2 | 10.0 |
| | 3.5-<4.0 g/dL | 48.2 | 46.2 | 42.9 | 42.6 | 42.2 |
| | >=4.0 g/dL | 31.2 | 35.2 | 41.7 | 42.3 | 42.6 |
| | Missing | 2.5 | 2.6 | 2.5 | 2.5 | 2.8 |
| 8e | Ultrafiltration rate average *3 (ml/kg/hr) (average of 8b) | 7.7 | 7.6 | 7.5 | 7.5 | 7.6 |
| 8f | Ultrafiltration rate categories (% of 8b; sums to 100%) | | | | | |
| | <=13 (ml/kg/hr) | 83.8 | 84.8 | 85.5 | 85.7 | 85.3 |
| | >13 (ml/kg/hr) | 8.9 | 8.1 | 7.5 | 7.2 | 7.5 |
| | Missing/Out of range | 7.2 | 7.1 | 7.1 | 7.1 | 7.2 |
| 8g | Eligible HD Kt/V patients (n) *4 | 49,011 | 50,027 | 51,125 | 40,029 | 400,279 |
| 8h | Eligible HD Kt/V patient-months (n) *2 *4 | 459,272 | 469,917 | 476,030 | 77,117 | 771,170 |
| 8i | Average Kt/V (average of 8h) *3 *4 | 1.6 | 1.6 | 1.7 | 1.6 | 1.6 |
| 8j | Kt/V categories (% of 8h; sums to 100%) *4 | | | | | |
| J | <1.2 | 2.0 | 1.9 | 1.5 | 1.5 | 1.5 |
| | 1.2-<1.8 | 71.3 | 71.5 | 69.9 | 70.4 | 71.3 |
| | >=1.8 | 25.1 | 25.3 | 27.3 | 27.2 | 26.2 |
| | Missing/Out of range | 1.6 | 1.3 | 1.2 | 1.0 | 1.1 |
| | Adult Peritoneal Dialysis (PD) Adequacy | | | | | |
| 8k | Eligible PD patients (n) | 6,464 | 6,824 | 7,343 | 5,548 | 55,477 |
| 81 | Eligible PD patient-months (n) *2 | 53,557 | 55,940 | 59,572 | 10,587 | 105,873 |
| 8m | Average Weekly Kt/V (average of 8l) *3*4 | 2.3 | 2.3 | 2.2 | | |
| 8n | Weekly Kt/V categories (% of 81; sums to 100%) 4 | | | | | |
| | <1.7 | 5.3 | 4.7 | 5.1 | | |
| | 1.7-<2.5 | 66.0 | 66.3 | 67.6 | | |
| | >=2.5 | 24.7 | 25.3 | 23.8 | | |
| | Missing/Out of range | 4.0 | 3.7 | 3.5 | | |
| 8o | Average serum albumin (g/dL) (average of 8l) | 3.5 | 3.5 | 3.6 | 3.6 | 3.6 |
| 8p | Serum Albumin Categories (% of 8l; sums to 100%) | | | | | |
| r | < 3.0 g/dL | 11.2 | 10.0 | 7.4 | 7.5 | 7.7 |
| | 3.0-<3.5 g/dL | 31.0 | 29.2 | 24.6 | 24.9 | 24.9 |
| | 3.5-<4.0 g/dL | 41.1 | 42.1 | 43.2 | 42.8 | 42.9 |
| | >=4.0 g/dL | 13.3 | 15.5 | 21.7 | 21.7 | 21.3 |
| | Missing | 3.3 | 3.2 | 3.0 | 3.2 | 3.2 |

(continued)

TABLE 8 (continued): Dialysis Adequacy Summaries for All Dialysis Patients *1, 2017-2020^^

| _ | | , | This Region | | | | |
|----|--|------|-------------|------|---------|---------|--|
| | Measure Name | 2017 | 2018 | 2019 | 2020 ^^ | 2020 ^^ | |
| | Pediatric Kt/V *4 | | | | | | |
| 8q | Eligible Pediatric HD patients (n) | 76 | 73 | 72 | 44 | 436 | |
| 8r | Eligible Pediatric HD patient-months (n) *2 | 519 | 516 | 503 | 80 | 804 | |
| 8s | Average Kt/V (average of 8r) *3 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | |
| 8t | Kt/V categories (% of 8r; sums to 100%) | | | | | | |
| | <1.2 | 2.8 | 2.2 | 2.4 | 3.1 | 3.2 | |
| | 1.2-<1.8 | 58.4 | 59.3 | 58.5 | 62.0 | 58.6 | |
| | >= 1.8 | 33.4 | 32.6 | 34.5 | 29.2 | 31.7 | |
| | Missing/Out of Range | 5.4 | 5.9 | 4.6 | 5.7 | 6.5 | |
| 8u | Eligible Pediatric PD Patients (n) | 95 | 92 | 88 | 57 | 572 | |
| 8v | Eligible Pediatric PD patient-months (n) *2 | 693 | 665 | 668 | 108 | 1,083 | |
| 8w | Average Weekly Kt/V (average of 8v) *3 | 2.4 | 2.4 | 2.4 | | | |
| 8x | Weekly Kt/V categories (% of 8v; sums to 100%) | | | | | | |
| | <1.7 | 15.2 | 12.4 | 11.3 | | | |
| | 1.7-<2.5 | 44.3 | 44.8 | 45.0 | | | |
| | >=2.5 | 28.3 | 27.6 | 26.5 | | | |
| | Missing/Out of Range | 12.2 | 15.2 | 17.3 | | | |

n/a = not applicable.

^[^^] Includes data reported in July and August 2020 only due to data limitations. See Data Limitations in FY 2022 Profiles on pages 1-2 for more information.
[*1] See Guide, Section XII. Unless otherwise noted, all summaries are based on data reported in CROWNWeb and the patient must be on HD (or PD) for the entire reporting month to be included in patient counts and summaries.

[*2] Patients may be counted up to 12 times per year.

^[*3] Based on in-range values; see Guide for range values.

^[*3] Based on in-lange values, see *Guatae* for lange values.

[*4] Kt/V summaries are restricted to patients who dialyze thrice weekly. See section of Guide titled *Determination of Thrice Weekly Dialysis* for more information. The most recent value over a 4-month period is selected for PD Kt/V. PD Kt/V values for 2020 are not calculated due to data exceptions; see *Data Limitations in FY 2022 Profiles* on pages 1-2 more information.

TABLE 9: Mineral Metabolism Summaries for All Adult Dialysis Patients *1, 2017-2020 ^^

| | | | This Region | | | |
|----|--|---------|-------------|---------|---------|---------|
| | Measure Name | 2017 | 2018 | 2019 | 2020 ^^ | 2020 ^^ |
| 9a | Eligible adult patients (n) *2 | 56,617 | 57,703 | 58,892 | 48,212 | 482,104 |
| 9b | Eligible adult patient-months (n) *2 *3 | 539,286 | 549,992 | 559,530 | 93,164 | 931,644 |
| 9c | Average Phosphorous *4(mg/dL) (average *5) | 5.3 | 5.3 | 5.4 | 5.5 | 5.5 |
| 9d | Phosphorous categories (% of 9b *5; sums to 100%) | | | | | |
| | <3.5 mg/dL | 8.5 | 8.1 | 7.6 | 7.2 | 7.3 |
| | 3.5-4.5 mg/dL | 25.0 | 24.4 | 23.5 | 22.7 | 22.6 |
| | 4.6-5.5 mg/dL | 30.0 | 30.0 | 30.1 | 29.8 | 29.9 |
| | 5.6-7.0 mg/dL | 21.2 | 21.6 | 22.2 | 22.4 | 22.2 |
| | >7.0 mg/dL | 12.6 | 13.3 | 14.3 | 15.5 | 15.5 |
| | Missing/Out of range | 2.6 | 2.6 | 2.4 | 2.4 | 2.5 |
| 9e | Average Calcium Uncorrected *4 (mg/dL) (average of 9b) | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| 9f | Calcium Uncorrected categories (% of 9b; sums to 100%) | | | | | |
| | <8.4 mg/dL | 17.2 | 17.5 | 19.5 | 20.5 | 20.1 |
| | 8.4-10.2 mg/dL | 79.0 | 78.8 | 77.2 | 76.3 | 76.6 |
| | >10.2 mg/dL | 1.3 | 1.3 | 1.2 | 1.1 | 1.0 |
| | Missing/Out of range | 2.5 | 2.4 | 2,1 | 2.2 | 2.3 |
| 9g | Average uncorrected calcium > 10.2 mg/dL (average of 9b *4 *6) | 1.8 | 1.8 | 1.5 | 2.6 | 2.7 |

n/a = not applicable.

^[^^] Includes data reported in July and August 2020 only due to data limitations. See *Data Limitations in FY* 2022 *Profiles* on pages 1-2 for more information.
[*1] See *Guide, Section XIII*. Summaries are based on data reported in CROWNWeb and the patient must be assigned to the facility the entire month to be included.
[*2] Includes patients on ESRD more than 90 days who switch between HD and PD during the month and patients for whom modality is unknown.
[*3] Patients may be counted up to 12 times per year.

^[*4] The acceptable range for calcium is 0.1 – 20 mg/dL. Values outside of this range are considered missing, which are counted towards the numerator.
[*5] Eligible patients included in the phosphours summaries differ slightly from what is reported in 9b since it includes patient-months within the first 90 days of ESRD.
[*6] Hypercalcemia is averaged from uncorrected serum or plasma calcium values over a rolling 3-month period. Eligible patients included in the hypercalcemia summary differs slightly from what is reported in 9b since patients must be 18 as of the first day of the 3-month period.

TABLE 10: Vascular Access Information for all Adult Dialysis Patients and Access-Releated Infection Summaries for all Medicare Patients *1, 2017-2020

| | | , | This Region | | | | |
|-----|---|---------|-------------|---------|-------------------|---------|--|
| | Measure Name | 2017 | 2018 | 2019 | 2020 ^^ | 2020 ^^ | |
| | Vascular Access | | | 1 | | | |
| 10a | Prevalent adult hemodialysis (HD) patients *2 | 54,216 | 55,070 | 55,846 | 44,283 | 442,812 | |
| 10b | Prevalent adult hemodialysis patient months *2 *3 | 514,659 | 523,322 | 529,583 | 85,249 | 852,494 | |
| 10c | Vascular access type in use (% of 10b; sums to 100%) | | | | | | |
| | Arteriovenous fistula | 65.1 | 65.2 | 64.7 | 63.3 | 61.9 | |
| | Arteriovenous graft | 16.7 | 16.6 | 16.6 | 16.1 | 17.4 | |
| | Catheter | 16.4 | 16.6 | 17.4 | 19.0 | 19.1 | |
| | Other/Missing | 1.7 | 1.7 | 1.4 | 1.5 | 1.7 | |
| 10d | Standardized Fistula Rate (SFR)*4 | 65.3 | 65.4 | 64.9 | 63.8 | 61.8 | |
| 10e | Long-Term Catheter Rate *5 | 11.8 | 11.9 | 12.4 | | | |
| | Vascular Access at First Treatment | | | | | | |
| 10f | Incident adult hemodialysis patients (n) | 10,716 | 10,717 | 10,418 | 2,357 | 23,571 | |
| 10g | Vascular access type in use (% of 10f; sums to 100%) | | | | | | |
| | Arteriovenous fistula | 17.7 | 17.3 | 16.5 | 10.5 | 9.2 | |
| | Arteriovenous graft | 3.6 | 3.5 | 3.3 | 2.1 | 2.1 | |
| | Catheter | 76.9 | 76.6 | 78.1 | 54.8 | 55.5 | |
| | Other/Missing | 1.7 | 2.6 | 2.1 | 32.7 | 33.3 | |
| 10h | Arteriovenous fistulae in placed *6 (% of 10f) | 19.3 | 19.0 | 17.5 | 10.9 | 9.6 | |
| | Infection: Peritoneal dialysis (PD) | 2017 | 2018 | 2019 | 2020 [^] | 2020 ^ | |
| 10i | Eligible PD patients (n) | 4,799 | 4,896 | 5,193 | 4,636 | 46,362 | |
| 10j | Eligible PD patient-months *3 | 35,878 | 36,488 | 37,809 | 19,384 | 193,844 | |
| 10k | PD catheter infection rate per 100 PD patient-months *7 | 2.5 | 2.5 | 2.5 | 2.6 | 2.6 | |
| 101 | P-value *8 of 10k (compared to U.S. value *9) | 0.139 | 0.109 | 0.195 | 0.205 | n/a | |

^[^] Infection summaries include data between January-February and July-October 2020 due to data exceptions. See Data Limitations in FY 2022 Profiles on pages 1-2 for more information.

^[^] Vascular access summaries include data reported in July and August 2020 only due to data limitations. See Data Limitations in FY 2022 Profiles on pages 1-2 for more information.

^[*2] Patient months with a catheter that have limited life expectancy, including under hospice care in the current reporting month, or with metastatic cancer, end stage liver disease, coma or anoxic brain injury in the past 12 months, were excluded.

[*3] Patients may be counted up to 12 times per year.

^[*4] Includes patients with an autogenous arteriovenous (AV) fistula as the sole means of vascular access. SFR is calculated as an adjusted rate of AV fistula in use reported in 10c.

^[*5] Includes patients using a catheter continuously for three months or longer. Patients with other or missing access types (10c) are also counted as catheter in use in the numerator. Long-term catheter rate (10e) values in 2020 were not calculated due to data limitations. See Data Limitations in FY 2022 Profiles on pages 1-2 for more

^[*6] Includes all patients with fistulae, regardless of whether or not they received their hemodialysis treatments using their fistulae.

^[*7] The ICD-9 PD catheter infection code for PD patients is 996.68 which is effective thru 9/30/2015 and the ICD-10 PD catheter infection code for PD patients is T8571XA which is effective beginning 10/1/2015.

^[*8] A p-value greater than or equal to 0.05 indicates the differences between the percent of patients with infection at the facility and national percentage is plausibly due

^[*9] Compared to U.S. value for that year: 2.56 (2017), 2.48 (2018), 2.47 (2019), and 2.60 (2020).

TABLE 11: Comorbidities Reported on Inpatient Medicare Claims for Medicare Dialysis Patients Treated as of December 31^{st} of Each Year *1 , 2017-2020

| | | | This Region | | | | |
|-----|---|--------|-------------|--------|--------|---------|--|
| | Measure Name | 2017 | 2018 | 2019 | 2020 | 2020 | |
| 11a | Medicare dialysis patients on 12/31(n) | 38,993 | 39,647 | 40,570 | 38,400 | 389,712 | |
| 11b | Comorbidity (% yes of 11a) | | | | | | |
| | Infections | | | | | | |
| | AIDS/HIV positive | 0.8 | 0.8 | 0.7 | 0.7 | 0.8 | |
| | Intravascular/implanted device-related *2 | 5.1 | 5.0 | 4.6 | 4.5 | 4.7 | |
| | Hepatitis B | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | |
| | Hepatitis other | 2.6 | 2.4 | 2.1 | 1.9 | 2.0 | |
| | Metastatic | 1.4 | 1.5 | 1.4 | 1.4 | 1.4 | |
| | Pneumonia | 3.8 | 4.1 | 5.0 | 3.5 | 3.5 | |
| | Tuberculosis | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 | |
| | Other | 20.1 | 20.0 | 19.3 | 18.8 | 18.8 | |
| | Cardiovascular | | | | | | |
| | Cardiac arrest | 0.9 | 0.9 | 0.8 | 0.9 | 1.0 | |
| | Cardiac dysrhythmia | 19.2 | 19.4 | 19.1 | 19.1 | 18.7 | |
| | Cerebrovascular disease | 7.2 | 7.2 | 7.0 | 6.9 | 7.3 | |
| | Congestive heart failure | 30.4 | 30.9 | 30.2 | 30.0 | 30.1 | |
| | Ischemic heart disease | 27.8 | 27.7 | 26.9 | 26.4 | 26.3 | |
| | Myocardial infarction | 5.9 | 6.4 | 6.6 | 7.1 | 6.9 | |
| | Peripheral vascular disease *3 | 16.6 | 16.9 | 16.7 | 16.8 | 17.0 | |
| | Other | | | | | | |
| | Alcohol dependence | 1,5 | 1.6 | 1.5 | 1.4 | 1.4 | |
| | Anemia | 2.2 | 2.3 | 2.5 | 2.7 | 2.7 | |
| | Cancer | 3.4 | 3.5 | 3.4 | 3.3 | 3.2 | |
| | Chronic obstructive pulmonary disease | 16.7 | 16.3 | 15.9 | 14.8 | 14.6 | |
| | Diabetes | 37.6 | 37.4 | 36.3 | 36.0 | 36.6 | |
| | Drug dependence | 1.6 | 1.5 | 1.5 | 1.4 | 1.2 | |
| | Gastrointestinal tract bleeding | 2.6 | 2.6 | 2.7 | 2.9 | 2.9 | |
| | Hyperparathyroidism | 19.5 | 20.5 | 19.9 | 19.8 | 19.7 | |
| 11c | Average number of comorbid conditions | 2.3 | 2.3 | 2.2 | 2.2 | 2.2 | |

n/a = not applicable.

[*1] Based on patients with Medicare as primary insurer on 12/31 each year; See *Guide, Section XV*.

[*2] This category includes bloodstream and other infections related to intravascular access and other implanted devices, not limited to dialysis access.

[*3] Peripheral vascular disease includes venous, arterial and nonspecific peripheral vascular diseases.

TABLE 12: Selected Summaries for Nursing Home (NH) Patients $^{\ast 1}$, 2017-2020 $^{^{\wedge}}$

| | | , | United States | | | |
|-----------|---|-----------|---------------|----------|---------|----------|
| | Measure Name | 2017 2018 | | 2019 | 2020 | 2020 |
| | Mortality summary for all NH dialysis patients *3 | | | | | |
| 12.3a | Patients (n=number) | 12,271 | 12,576 | 12,717 | 10,594 | 105,935 |
| 12.3b | Patient years (PY) at risk (n) | 7,641.3 | 7,849.7 | 7,921.3 | 4,340.3 | 43,403.3 |
| 12.3c | Deaths (n) | 3,145 | 3,179 | 3,157 | 2,107 | 21,068 |
| 12.3d | Expected deaths (n) | 2,555.9 | 2,629.8 | 2,635.2 | 1,859.6 | 18,596.1 |
| 2.3c/12.3 | b Rate (deaths per 100 PYs at risk) | 40.7 | 40.5 | 39.4 | 48.2 | 48.5 |
| 12.3j | SMR (deaths/expected deaths) | 1.20 | 1.19 | 1.17 | 1.10 | 1.13 |
| 12.3e | Withdrawal from dialysis prior to death (% of 12.3c) | 38.1 | 38.8 | 39.2 | 23.5 | 20.6 |
| | Hospitalization summary for NH Medicare dialysis patients | | | | | |
| 12.4a | Medicare dialysis patients (n) | 11,342 | 11,567 | 11,711 | 9,678 | 96,775 |
| 12.4b | Patient years (PY) at risk (n) | 6,935.3 | 7,097.0 | 7,129.8 | 3,912.7 | 39,126.9 |
| 12.4g | Total admissions (n) | 22,104 | 22,518 | 22,430 | 12,431 | 124,311 |
| 12.4h | Expected total admissions (n) | 14,082.0 | 14,353.4 | 14,207.0 | 8,476.1 | 84,761.2 |
| 2.4g/12.4 | b Rate (admissions per 100 PYs at risk) | 308.7 | 308.0 | 304.9 | 305.1 | 317.7 |
| 12.4i | SHR (admissions/expected admissions) | 1.53 | 1.52 | 1.53 | 1.42 | 1.47 |
| | Diagnoses associated with hospitalization (% of 12.4a) | | | | | |
| | Septicemia | 25.4 | 25.6 | 24.8 | 26.9 | 27.7 |
| | Acute myocardial infarction | 9.6 | 10.6 | 10.9 | 12.2 | 12.2 |
| | Congestive heart failure | 47.3 | 48.4 | 48.1 | 49.2 | 50.2 |
| | Cardiac dysrhythmia | 35.4 | 35.8 | 35.6 | 36.8 | 37.1 |
| | Cardiac arrest | 4.0 | 3.8 | 3.6 | 4.3 | 4.8 |
| | Comorbidities reported on Medicare claims | | | | | |
| 12.11a | Medicare dialysis patients on 12/31 (n) | 6,516 | 6,639 | 6,710 | 5,148 | 51,482 |
| 12.11b | Comorbidity (% yes of 12.11a) | | | | | |
| | Infections | | | | | |
| | AIDS/HIV positive | 0.9 | 0.9 | 0.8 | 1.0 | 1.1 |
| | Intravascular/implanted device-related *4 | 9.2 | 9.1 | 8.2 | 7.9 | 8.5 |
| | Hepatitis B | 1.0 | 0.9 | 0.8 | 0.8 | 0.9 |
| | Hepatitis other | 4.5 | 4.2 | 3.7 | 3.8 | 4.1 |
| | Metastatic | 3.9 | 4.0 | 3.8 | 4.2 | 4.0 |
| | Pneumonia | 10.4 | 10.6 | 12.0 | 9.5 | 9.7 |
| | Tuberculosis | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 |
| | Other | 43.3 | 42.5 | 40.8 | 41.7 | 42.3 |
| | Cardiovascular | | | | | |
| | Cardiac arrest | 2.4 | 2.2 | 2.0 | 2.2 | 2.5 |
| | Cardiac dysrhythmia | 39.8 | 39.4 | 38.6 | 39.4 | 39.6 |
| | Cerebrovascular disease | 17.8 | 17.6 | 16.8 | 17.8 | 19.3 |
| | Congestive heart failure | 55.9 | 56.0 | 54.6 | 55.7 | 56.6 |
| | Ischemic heart disease | 51.2 | 50.2 | 48.7 | 49.0 | 49.7 |
| | Myocardial infarction | 11.3 | 12.4 | 12.3 | 13.9 | 13.9 |
| | Peripheral vascular disease *4 | 35.5 | 36.3 | 35.2 | 36.5 | 37.5 |

(continued)

TABLE 12 (continued): Selected Summaries for Nursing Home (NH) Patients *1 , 2017-2020 ^

| | | ' | This Region | | | | |
|--------|--|--------|-------------|--------|--------|---------|--|
| | Measure Name | 2017 | 2018 | 2019 | 2020 | 2020 | |
| | Anemia *5 | (| | | , | | |
| 12.7a | Eligible adult HD patients (n) | 9,960 | 10,181 | 10,259 | 6,265 | 62,648 | |
| 12.7b | Eligible adult HD patient-months (n) *2 | 83,324 | 85,585 | 86,053 | 11,775 | 117,745 | |
| 12.7d | Hemoglobin (HD) < 10 g/dL (% of 12.7b) | 27.5 | 28.9 | 29.7 | 27.2 | 28.1 | |
| 12.7e | ESA prescribed (% of 12.7b) | 79.0 | 78.8 | 79.6 | 79.0 | 79.4 | |
| 12.7f | Eligible adult PD patients (n) | 446 | 460 | 488 | 197 | 1,973 | |
| 12.7g | Eligible adult PD patient-months (n) *2 | 2,789 | 2,821 | 2,992 | 353 | 3,528 | |
| 12.7i | Hemoglobin (PD) < 10 g/dL (% of 7g) | 28.1 | 29.8 | 29.8 | 29.9 | 30.1 | |
| 12.7j | ESA prescribed (% of 7g) | 57.5 | 58.7 | 58.2 | 58.7 | 58.4 | |
| | Dialysis Adequacy *5 *6 | | | | | | |
| 12.8a | Eligible adult HD Kt/V patients (n) | 9,566 | 9,818 | 9,980 | 5,973 | 59,731 | |
| 12.8b | Eligible adult HD Kt/V patient-months (n) *2 | 79,471 | 82,122 | 83,096 | 11,209 | 112,090 | |
| 12.8j | Kt/V (HD) < 1.2 (% of 12.8b) | 2.5 | 2.4 | 2.0 | 2.2 | 2.3 | |
| 12.8k | Eligible adult PD Kt/V patients (n) | 446 | 460 | 488 | 197 | 1,973 | |
| 12.81 | Eligible adult PD Kt/V patient-months (n) *2 | 2,789 | 2,821 | 2,992 | 353 | 3,528 | |
| 12.8n | Kt/V (PD) < 1.7 (% of 12.8l) | 8.3 | 8.0 | 8.8 | | | |
| | Vascular Access *5 *7 | | | | | | |
| 12.10a | Prevalent adult hemodialysis patients (n) | 10,669 | 10,883 | 10,912 | 6,456 | 64,560 | |
| 12.10b | Prevalent adult hemodialysis patient months (n) *2 | 87,324 | 89,445 | 89,882 | 12,084 | 120,841 | |
| 12.10c | Arteriovenous fistula in use (% of 12.10b) | 54.8 | 55.0 | 54.5 | 52.6 | 50.3 | |
| 12.10e | Long-Term Catheter Rate (LTCR) | 16.7 | 16.9 | 17.4 | | | |

n/a = not applicable; Kt/V: K = dialyzer clearance of urea; t = dialysis time; V = patient's total body water.

[^] For exclusions due to data exceptions, please refer to corresponding parent table and *Data Limitations in FY 2022 Profiles* on pages 1-2 for more information.

[*1] See Guide, Section XVI corresponding to the parent table in the DFR state profile.

^[*2] A patient may be counted up to 12 times per year.

^[*3] Deaths due to street drugs and accidents unrelated to treatment are excluded.
[*4] Intravascular/implanted device-related category includes bloodstream and other infections related to intravascular access and other implanted devices, not limited to dialysis access. Peripheral vascular disease includes venous, arterial and nonspecific peripheral vascular diseases.
[*5] Summaries are based on data reported in CROWNWeb and the patient must be on HD (or PD) for the entire reporting month to be included in patient counts and

summaries.

^[*6] Summaries are supplemented with Medicare claims if missing in CROWNWeb. HD Kt/V summaries are restricted to patients who dialyze thrice weekly. The PD summaries use the most recent value over a 4-month look-back period.

[*7] Patient months with a catheter that have limited life expectancy, including under hospice care in the current reporting month, or with metastatic cancer, end stage liver disease, coma or anoxic brain injury in the past 12 months, were excluded.