



ESRD Network 4

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Quality
Insights

Renal Network 4

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REPORT HIGHLIGHTS

In 2013, Quality Insights was awarded the End-Stage Renal Disease (ESRD) Network 4 contract, establishing Quality Insights Renal Network 4. Since that award, Network 4 staff has worked to improve the quality of care being provided to ESRD patients in Pennsylvania and Delaware.

The Networks' responsibilities are to meet contractual requirements while striving to meet the Three-Part Aim of the Centers for Medicare & Medicaid Services (CMS): Better Care, Better Health, and Reduced Costs. Throughout 2016, Network 4 successfully met CMS' Three-Part Aim by engaging patients, families, and caregivers in Network 4 activities and listening to their voices; engaging patients in their treatment choices; engaging facilities to participate in quality improvement and quality monitoring activities; designing quality improvement projects that ultimately improve the care ESRD patients receive; collecting and analyzing data to drive quality improvement; providing technical assistance to patients who have ESRD; providing technical assistance to ESRD providers and kidney transplant centers in the Network area; and addressing patient grievances.

Notable achievements in 2016:

- We conducted a Quality Improvement Activity to decrease the long-term use of catheters for vascular access in prevalent dialysis patients. At baseline, 137 facilities met the project eligibility requirement of more than 10% of the patients in the facility utilizing a long-term catheter (LTC) for their treatment. We created a focus group of 55 facilities from among the 137 baseline facilities. At the end of the project, the 137 facilities achieved the goal of reducing the percent of patients utilizing LTCs by two percentage points, from a baseline rate of 15.95% to 13.91%.
- We conducted a project to increase the percent of in-center dialysis patients who are referred for home dialysis. We designed this project to address a disparity in the number of female patients who were referred, as compared to male patients. At the conclusion of the project, referral rates had increased from 8.4% to 28.5% of patients in 19 targeted facilities. The disparity in referral rates had been reduced from 5.1 percentage points to 1.5 percentage points.

We look forward to continuing our partnerships and our progress in 2017 and beyond. We anticipate exploring new and innovative quality improvement opportunities with providers, patients, caregivers, and other stakeholders. We remain motivated and vigilant in helping Network-area providers to safely deliver high quality care and meet the National Quality Standards (<http://www.ahrq.gov/workingforquality/nqs/principles.htm>) and CMS' three AIMs for the ESRD Network Program.

INTRODUCTION

CMS' End-Stage Renal Disease Network Organization Program

The End-Stage Renal Disease Network Organization Program (ESRD Network Program) is a national quality improvement program funded by the Centers for Medicare & Medicaid Services (CMS). CMS is a federal agency, part of the U.S. Department of Health and Human Services.

CMS defines end-stage renal disease (ESRD) as permanent kidney failure in an individual who requires dialysis or kidney transplantation to sustain life.

Under contract with CMS, 18 ESRD Network Organizations, or ESRD Networks, carry out a range of activities to improve the quality of care for individuals with ESRD. The 18 ESRD Networks serve the 50 states, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, American Samoa, Guam, and the Northern Mariana Islands.

Medicare Coverage for Individuals with ESRD

Medicare coverage was extended to most ESRD patients in the U.S. under the Social Security Act Amendments of 1972 (Public Law 92-603). Individuals with irreversible kidney failure are eligible for Medicare if they need regular dialysis or have had a kidney transplant and they meet (or their spouse or parent meets) certain work history requirements under the Social Security program, the railroad retirement system, or federal employment.

History of CMS' ESRD Network Organization Program

Following passage of the 1972 Amendments to the Social Security Act, in response to the need for effective coordination of ESRD care, hospitals and other healthcare facilities were organized into networks to enhance the delivery of services to people with ESRD.

In 1978, Public Law 95-292 modified the Social Security Act to allow for the coordination of dialysis and transplant services by linking dialysis facilities, transplant centers, hospitals, patients, physicians, nurses, social workers, and dietitians into Network Coordinating Councils, one for each of 32 administrative areas.

In 1988, CMS consolidated the 32 jurisdictions into 18 geographic areas and awarded contracts to 18 ESRD Network Organizations, now commonly known as ESRD Networks. The ESRD Networks, under the terms of their contracts with CMS, are responsible for: supporting use of the most appropriate treatment modalities to maximize quality of care and quality of life; encouraging treatment providers to support patients' vocational rehabilitation and employment; collecting, validating, and analyzing patient registry data; identifying providers that do not contribute to the achievement of Network goals; and conducting onsite reviews of ESRD providers as necessary.

ESRD Network 4

Corporate Affiliation

Quality Insights Renal Network 4 is part of the Quality Insights family of healthcare improvement companies. Quality Insights holds the Medicare Quality Improvement Network-Quality Improvement Organization (QIN-QIO) contracts for Delaware, Louisiana, New Jersey, Pennsylvania, and West Virginia and three ESRD Networks: the Mid-Atlantic Renal Coalition, Quality Insights Renal Network 3, and Quality Insights Renal Network 4.

By pooling common administrative services such as information technology (IT), human resources (HR), communications, data/analytic services, and financial services, Quality Insights provides Network 4 with efficient centralized support while fielding highly engaged and collaborative local staff who have developed trusted relationships with Network area healthcare provider communities and consumer organizations.

Geographic Description

Network 4 is responsible for two neighboring states, Pennsylvania and Delaware, which are located in the Northeast United States. The states, although in close proximity, vary in size, population, concentration of ESRD providers as well as geographic characteristics.

Pennsylvania is made up of 67 counties that cover 44,827 square miles. As of December 31, 2016, a total of **17,864** patients were receiving dialysis services in the state of Pennsylvania. Those patients who were treated at an in-center hemodialysis center did so at one of 295 Medicare-approved dialysis centers, a Medicare-approved Veterans Administration Medical Center (VAMC), or two non-Medicare-approved VAMC units.

Delaware, the other state in the Network 4 service area, is made up of three counties, spans 1,954 square miles, and is the fourth smallest state in the country. Delaware's location provides patients with easy access to several of the major metropolitan areas of the Northeast, including Washington, D.C., Philadelphia, and Baltimore. As of December 31, 2016, a total of **1,682** patients were receiving dialysis services in the state of Delaware. Those who were treated at an in-center hemodialysis center did so at one of 25 Medicare-approved dialysis centers or at one non-Medicare-approved Veterans Affairs Medical Center (VAMC) unit.

As of December 31, 2016, the Network 4 area was home to 19,939 chronic dialysis patients who received services at one of 324 dialysis units and to 11,948 kidney transplant patients who received care at one of 19 kidney transplant units (see Table A). Dialysis facilities in these states provide in-center care on a variety of days, including weekends, at various times throughout each day. Of all the facilities in the Network 4 area, 16.2% offer evening dialysis treatments to their patients starting after 5:00 pm, important to those patients who wish to continue employment or are attending school (see Table B).

Table A: Dialysis Facilities and Transplant Centers in the Network’s Service Area, as of December 31, 2016

Category	Number
Number of Dialysis Facilities in the Network’s Service Area	324
Number of Transplant Centers in the Network’s Service Area	19

Source of data: CROWNWeb

Table B: Number of Medicare-Certified Dialysis Facilities in the Network’s Service Area and Number and Percent of Dialysis Facilities Offering Dialysis Shifts Starting after 5 PM, as of December 31, 2016

Category	Number	Percent
Number of Dialysis Facilities in the Network’s Service Area	324	
Dialysis Facilities in the Network’s Service Area Offering Dialysis Shifts Starting after 5 PM	50	15.4

Source of data: CROWNWeb

Network Goals

CMS establishes priorities for the ESRD Network contractors annually in the Statement of Work section of each Network’s contract with the agency. These priorities support CMS and Department of Health and Human Services (HHS) national quality improvement goals and priorities.

In 2016, the ESRD Network contractors were tasked with meeting the following goals:

- Improving care for ESRD patients in the Network’s service area by:
 - Promoting patient- and family-centered care
 - Responding to grievances about ESRD-related services filed by, or on behalf of, ESRD patients
 - Supporting improvement in patients’ experience of care
 - Working with dialysis facilities to ensure that all dialysis patients have access to appropriate care
 - Promoting best practices in vascular access management; and
 - Helping dialysis facilities reduce the incidence of healthcare-associated infections.
- Improving the health of the ESRD patient population in the Network’s service area through activities designed to reduce disparities in ESRD care; and
- Reducing the costs of ESRD care in the Network’s service area by supporting performance improvement at the dialysis facility level and supporting facilities’ submission of data to CMS-designated data collection systems

PROFILE OF PATIENTS IN THE NETWORK'S SERVICE AREA

The ESRD Network Program collects data on incident (new) ESRD patients, prevalent (currently treated) dialysis patients, and renal transplant recipients.

The Network uses data on patients' clinical characteristics—including primary cause of ESRD, treatment modality, and vascular access type—to focus its outreach and quality improvement activities.

Table C: Clinical Characteristics of the ESRD Population in the Network's Service Area, Calendar Year 2016

Category	Number	Percent
Incident (New) ESRD Patients		
Number of Incident ESRD Patients, Calendar Year 2016	5,341	
Prevalent Dialysis Patients		
Number of Prevalent Dialysis Patients as of December 31, 2016	19,939	
Treatment Modality of Prevalent Dialysis Patients as of December 31, 2016		
In-Center Hemodialysis or Peritoneal Dialysis	17,712	88.7%
In-Home Hemodialysis or Peritoneal Dialysis	2,251	11.3%
Total	19,963	100%
Vascular Access Type at Latest Treatment among Prevalent In-Center and In-Home Hemodialysis Patients as of December 31, 2016		
Arteriovenous Fistula in Use	11,179	63.5%
Arteriovenous Graft in Use	3,031	17.2%
Catheter in Use for 90 Days or Longer	1,895	10.8%
Other	1,505	8.5%
Total	17,610	100.0%
Renal Transplants		
Number of Renal Transplant Recipients,* Calendar Year 2016	1,130	
Total	1,130	100%

Source of data: CROWNWeb.

*Count of unduplicated individuals receiving renal transplantation during the calendar year.

IMPROVING CARE FOR ESRD PATIENTS

The Network works closely with ESRD patients, patients' family members and friends, nephrologists, dialysis facilities and other healthcare organizations, ESRD advocacy organizations, and other ESRD stakeholders to improve the care for ESRD patients in Pennsylvania and Delaware.

Under its contract with CMS, the Network is responsible for:

- Identifying opportunities for quality improvement and developing interventions to improve care for ESRD patients in the Network service area
- Identifying opportunities for improvement at the facility level and providing technical assistance to facilities as needed
- Promoting the use of best practices in clinical care for ESRD patients
- Encouraging use of all modalities of care, including home modalities and transplantation, as appropriate, to promote patient independence and improve clinical outcomes
- Promoting the coordination of care across treatment settings; and
- Ensuring accurate and timely data collection, analysis, and reporting by facilities in accordance with national standards

In 2016, Network 4 had several successes in its Quality Improvement Activities (QIAs). The first successful QIA addressed reducing the long-term use of catheters for vascular access in our prevalent patient population. The second QIA success was a project in which we focused on increasing home modality referrals.

AIM 1: Reduce Catheter Rates for Prevalent Patients

Background: Hemodialysis requires repeated vascular access to large blood vessels capable of effectively removing wastes from the blood. The three forms of vascular access are arteriovenous fistula (AVF), arteriovenous graft (AVG), and central venous catheter (CVC). A patient's vasculature and medical and physical conditions are used to determine the ideal access type. Using a dialysis catheter for more than 90 days as the main source of vascular access for dialysis treatments exposes patients to higher risks of infection and mortality than when using an AVF or AVG for vascular access. These catheters are designed to remain in place for a maximum of 90 days and should be used as a temporary bridge to a permanent AVF or AVG. However, CVCs often become the long-term access for patients. According to the 2015 U.S. Renal Data System (USRDS), in 2013, at 90 days after initiation of dialysis, 68.3% of patients were still using a catheter alone¹, highlighting an ongoing need for improvement in pre-dialysis access planning.

¹ https://www.usrds.org/2015/view/v2_04.aspx

Targeted Population and Approach: All facilities with a >10% LTC in-use rate as of September 30, 2015, were required to participate in the QIA. The aggregate baseline LTC rate in the 137 facilities meeting this criterion was 15.95%. The goal of the project was to reduce this baseline rate by two percentage points.

Since there were 137 facilities in the project, we utilized the Pareto Principle to create a focus group. The Pareto Principle holds that a relatively small number of contributors account for the majority of the effect. We wanted to concentrate extra efforts with those facilities that had the greatest opportunity for improvement. Our approach was to have corporate leadership select at least 10 of their facilities from the 137 baseline facilities to participate in a focus group. Corporate leaders are most familiar with their facilities and which units have capacity and the greatest opportunity for improvement. The focus group consisted of 55 facilities: 10 each from three large dialysis organizations, 10 from a small dialysis organization, and 15 independent facilities. With this approach, we predicted that we would reduce duplication of efforts and engage facilities' ownership of the project.

Implementation: Network 4 took a two-pronged approach by providing general interventions for all eligible hemodialysis facilities, as well as working closely with a subset of focus facilities that presented the greatest opportunity for improvement.

Network 4 provided the following high-level general interventions for all eligible facilities:

- Provided the facilities their facility-specific baseline LTC rate and their goal to achieve by the end of the project
- Provided materials and resources as needed to assist in vascular access management
- Provided evidence-based interventions from the National Coordinating Center (NCC)
- Developed and provided a Facility Summary Report to share with each facility, which showed vascular access rates at the facility, state, Network, and national levels and a Patient-Specific Longitudinal Access Report for facilities to utilize for data completeness and accuracy in CROWNWeb
- Monitored facilities' LTC rates and provided feedback as needed

Network 4 concentrated additional efforts with a smaller subset of 55 focus facilities that at baseline presented with the highest long-term catheter rates and/or facilities that had been identified by corporate leadership to participate in the focus group. Network 4 provided the following interventions for the 55 focus facilities:

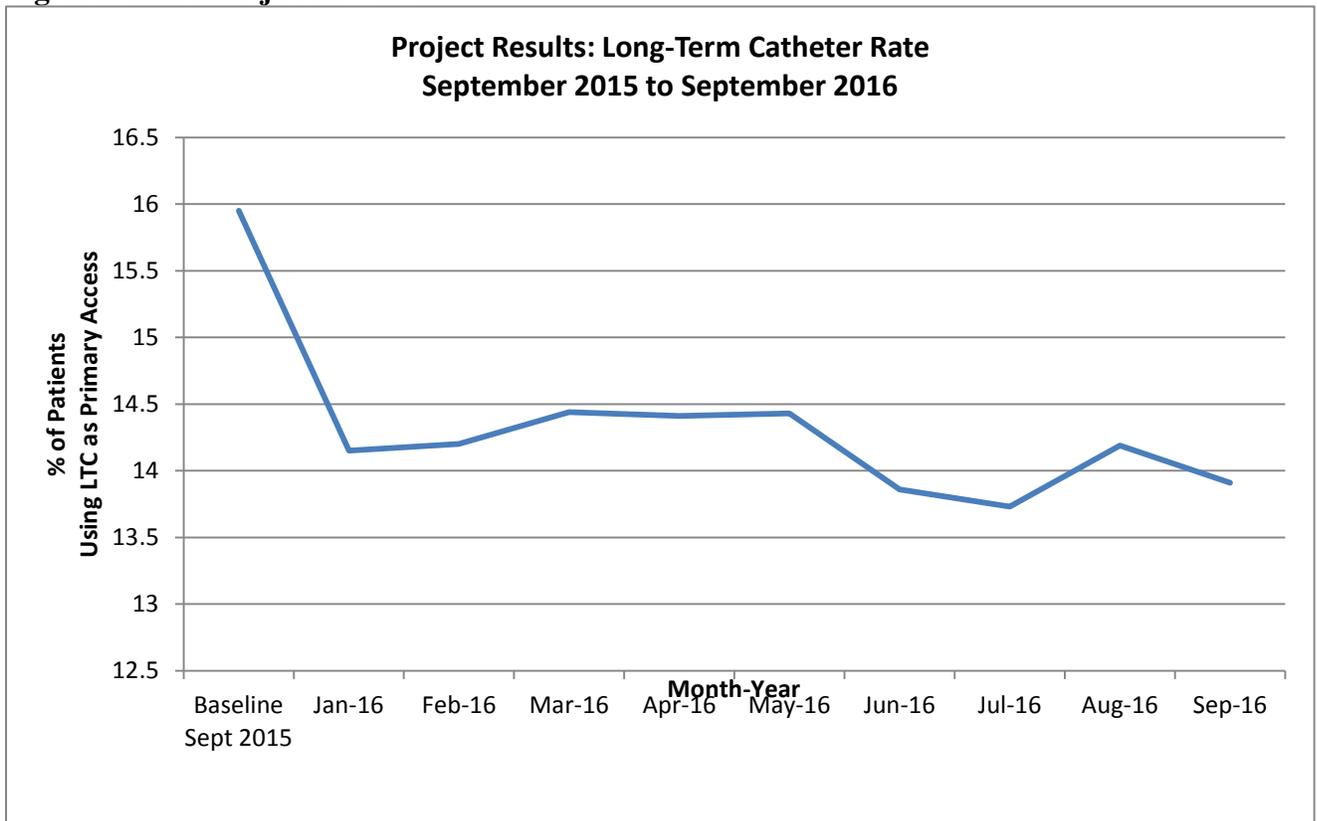
- Made contact with facility leadership to solicit leadership buy-in
- Provided an introductory webinar to provide directions for the project
- Provided information and training on using rapid cycle improvement methodology
- Provided directions and assisted facility staff members to complete a root cause analysis (RCA) and identify the top two barriers to reducing their high LTC rates
- Provided directions and assisted facilities in developing their specific quality improvement (QI) plan to address the top two barriers identified in the RCA
- Developed and provided a monthly reporting tool for facilities to track monthly progress

- Analyzed facilities’ monthly vascular access reporting data and provided individualized feedback as needed

Project Outcome:

From a baseline rate of 15.95%, by September 2016 we had reduced the LTC rate in target facilities to 13.91%, exceeding the two percentage point goal.

Figure 1: LTC Project Results



Source of data: 2016 CROWNWEB Vascular Access Data, NCC FFCL Database

Population Health Innovation Pilot Project: Increasing Home Dialysis Referrals

Background: Studies show that patients who participate in home dialysis therapy experience greater independence than in-center dialysis patients and are able to dialyze at a slower rate, which is proven to produce a better physiological response². Patients who have home dialysis therapy also benefit from the following:

- Improved blood pressure control

² Young BA, Chan C, Blagg C, et al. How to overcome barriers and establish a successful home HD program. 2012. <http://cjasn.asnjournals.org/content/early/2012/10/03/CJN.07080712.full>. Accessed January 18, 2016

- Better quality of life
- Better phosphorus control to prevent bone disease
- Improvements in neuropathy, less restless leg syndrome
- Feel better during dialysis (less “washed out” feelings)
- More energy for daily tasks
- Better sleep
- Greater independence, responsibility, and confidence
- Better opportunity for continued employment
- Better opportunity for travel
- Fewer and shorter hospital stays

Despite the benefits of home dialysis therapies, according to the United States Renal Data System (USRDS), home dialysis accounted for only 11.5% of all prevalent dialysis patients in 2013³. As of December 31, 2015, only 10.9% of Network 4’s dialysis patient population used a form of home therapy. Improving the home modality referral rate is an important step to providing opportunities for patients to have in-depth conversations and one-to-one training with a home modality nurse. The long-term goal and impact of improving home modality referrals and initiation aligns with CMS’ three aims, and results in better health and lower costs for our patients.

Targeted Population: The first step in selecting the participating facilities was an analysis of the facility’s patient responses to question number 39 in the In-Center Hemodialysis Consumer Assessment of Healthcare Providers and Systems (ICH CAHPS) Survey, which states “. . . in the last 12 months, did either your kidney doctors or dialysis center staff talk to you about peritoneal dialysis?” We identified 19 facilities where a high percentage of responding patients said that they did not receive information on peritoneal dialysis, one of the home therapy options. These 19 facilities treated 891 patients from the approximately 17,000 in-center hemodialysis patient population in Network 4’s service area. The 891 patients met the project’s minimum requirement of 5% of the Network service area in-center hemodialysis patient population. Further analysis revealed a disparity based on patient gender (female vs male) at the time of referral. As of December 31, 2015, 10.6% of the males in these 19 facilities had been referred for home dialysis, as opposed to only 5.5% of females.

Implementation: To embrace this opportunity for improvement in home modality referrals, we planned a multi-pronged approach that included comparative feedback reports, analysis of home therapy referral processes, and development of educational materials geared toward the female dialysis patient. We designed this project by incorporating CMS’ 6 Innovative Project Attributes:

1. Rapid Cycle Improvement in QIAs and Outputs

We provided an introductory webinar for the selected focus facilities and required each selected facility to complete an RCA and identify the top two barriers to address with a written quality improvement plan. We provided resources from the Institute for Healthcare Improvement Model for Improvement. We consulted with the Network 4 Home Therapy Workgroup to review facilities’ progress and to incorporate new interventions as a result of

³ https://www.usrds.org/2015/view/v2_01.aspx

Plan Do Study Act (PDSA) cycles. We provided individualized coaching calls to review home dialysis referral rates and determine possible interventions as needed. We designed educational materials for providers and patients specifically targeting the female population, in an effort to reduce the disparity.

2. Customer Focus and Value of the QIAs to Patients, Participants, and CMS

We consulted with the Medical Review Board (MRB), patients, and providers to assist in the development of the project plan and the ongoing improvement process of the project. We convened an internal Home Therapy Workgroup (HTW) to assist in the development, implementation, and evaluation of the project. The HTW included Network 4 MRB representatives and two other patients from the dialysis community. We worked one-on-one with the focus facilities by means of either site visits and/or phone calls for individual coaching and mentoring. We encouraged the focus facilities to engage their facility's patient representative to serve as home dialysis champion for their facility. We provided webinars with continuing education credits on topics related to home therapy aimed at social workers, nurses, and patient care technicians.

3. Ability to Prepare the Field to Sustain the Improvement:

We engaged corporate leadership at the start of the project to support system changes. We developed several tools and encouraged facilities to adopt them. Through sharing of best practices, we developed a standardized referral approach for facilities to weave into their methodology. We developed a monthly reporting tool for facilities to document referral activities and provided feedback reports to facilities for internal monitoring of their progress. We developed a Home Therapy Option handout and encouraged facilities to include the handout in their welcome packet. We promoted the use of the *My Life, My Dialysis Choice* decision aid tool, developed by the Medical Education Institute and available at <https://mydialysischoice.org/>. The tool allows patients to choose their values and priorities and see which dialysis choice will best fit their needs. The goal is to open the door for conversations about the different home modalities. For long-term sustainability, Network 4 collaborated with Network 3 (New Jersey, Puerto Rico, U.S. Virgin Islands) and Network 14 (Texas) to develop a home therapy learning module for the 5 Diamond program (<https://5diamondpatientsafety.org/Home.aspx>).

4. Value Placed on Innovation:

We encouraged the participating facilities to use the resource, *My Life, My Dialysis Choice* decision aid, to assess modality options that may best fit the patients' values. We leveraged technology to share lessons learned by developing a real time discussion board on the Network 4 website for the participating facilities to share barriers, lessons learned, and best practices. We supported one of our patient Subject Matter Experts (SMEs) who was instrumental in starting a peritoneal dialysis support group. We collaborated with providers to explore staff-assisted home dialysis for nursing home patients. We provided decision aids that incorporate the patient's experience, such as through the use of patient stories.

5. Commitment to Boundarilessness:

We accepted an invitation by the American Nephrology Nurses Association (ANNA) chapter in Delaware to speak at its meeting. We contacted the Western PA Support Group to see if

they would be able to assist participating facilities in Western PA with their lobby days during which educational material and staff are available in the waiting area or lobby to educate patients and families about peritoneal dialysis (PD). The Western PA support group is run by patients and provides information on options to help patients make informed decisions and improve everyday living. We collaborated with the Medical Education Institute by engaging the Executive Director to serve on one of our workgroups and to present a webinar on the topic of *Speaking to Patients about Home Dialysis* in June 2016. We engaged a professor of Medicine at the University of Pittsburgh School of Medicine and an expert in home therapy to present a webinar on the topic of *Increasing the Use of Home Dialysis Modalities* during the month of July. We awarded 1.2 CEU contact hours to nurses and patient care technicians.

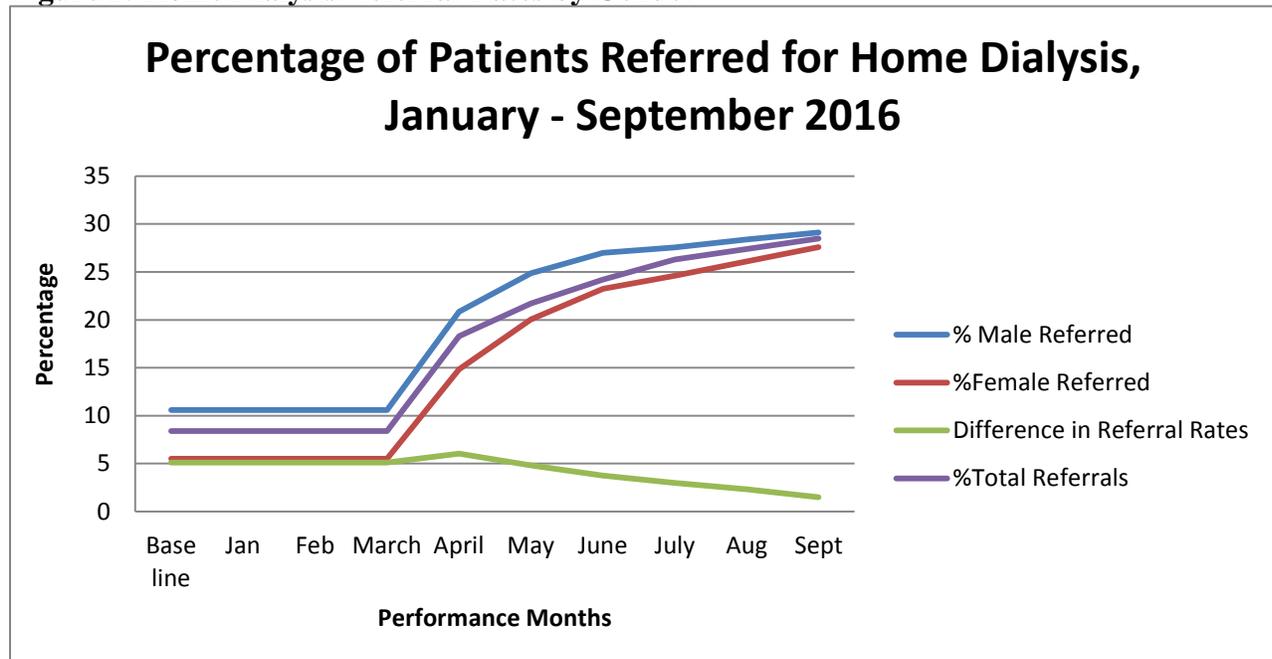
6. Unconditional Teamwork:

We collaborated with the other ESRD Networks (Networks 3, 10, 11, 14) working on this project to share analytic findings, ideas, and best practices through the National Coordinating Center AIM 2 voluntary workgroup. Throughout the project, we continued to meet with our internal Home Therapy Workgroup to work on strategies to improve home dialysis referral rates.

Project Outcome:

At the conclusion of the Network 4 Population Health Innovative Pilot Project, focus facilities as a group had improved from 8.4% to 28.5% of their patients having been referred for home therapy. The disparity baseline of 5.1 percentage points decreased to 1.5 percentage points, a 3.6 percentage point reduction, exceeding the one percentage point CMS goal.

Figure 2: Home Dialysis Referral Rates by Gender



Source of data: National Coordinating Center (NCC) Working Databases for patient races; facility self-reported data for number of referrals. Baseline was the second and third quarter of 2015.

Facilities that Consistently Failed to Cooperate with Network Goals

All facilities in the Network 4 geographic area cooperated fully with Network goals and participated in our quality improvement interventions when required.

Recommendations for Sanctions

Network 4 did not recommend sanctions for any facilities in 2016.

Recommendations to CMS for Additional Services or Facilities

Network 4 did not recommend any additional services or facilities in 2016. The facilities and services available to patients in the Network 4 geographic area are well dispersed and are readily accessible to patients in need.

GRIEVANCES AND ACCESS TO CARE

The Network responds to grievances filed by or on behalf of ESRD patients in its service area. In 2016, the Network responded to 243 grievances. Of these, 39 (16%) involved issues related to access to care.

Table D: Grievance Data for Calendar Year 2016

Category	Number
Number of Grievance Cases Opened by the Network in Calendar Year 2016	243
Number of Grievance Cases Involving Access to Care	7
Number of Grievance Cases Involving Involuntary Transfer	1
Number of Grievance Cases Involving Involuntary Discharge	3
Number of Grievance Cases Involving Failure to Place	3
Number of Non-Grievance Cases Involving Access to Care	51
Number of Non-Grievance Cases Involving Involuntary Transfer	0
Number of Non-Grievance Cases Involving Involuntary Discharge	41
Number of Non-Grievance Cases Involving Failure to Place	10
Total Number of Grievance and Non-Grievance Cases Involving Access to Care	39
Number of Grievance Cases Closed by the Network in Calendar Year 2016	243
Number of Non-Grievance Access to Care Cases Closed by the Network in Calendar Year 2016	31

Source of data: Patient Contact Utility

Grievance Cases Referred to State Survey Agencies

Network 4 referred eight cases to the Pennsylvania State Survey Agency in 2016.

One referral was for a patient who reported a leg injury that was sustained while staff operated a lift to weigh the patient. This patient's injury required surgery. Investigators from the Pennsylvania State Survey Agency substantiated the patient complaint.

Three referrals were from three patients at the same facility on the same day and shift. Patient complaints were for insufficient staffing. Upon investigation, the Pennsylvania State Survey Agency did not find proof of the allegation and thus could not substantiate the complaint.

Two referrals were from two patients at the same facility on the same day and shift. Patient complaints were for quality of care issues involving infection control, heparin shortage, and insufficient staffing. One of the patient complaints regarding heparin shortage was substantiated upon investigation by the survey agency.

One referral was from a patient's husband who reported that the patient was hospitalized with an infection. The patient's husband reported that patient contracted the infection from a nurse at the dialysis facility. Upon investigation, the survey agency was unable to substantiate the complaint.

One referral was from a patient's husband who reported that staff set up the dialysis machine improperly and no fluid was pulled from patient during treatment. Following this incident, the patient switched back to home therapy. This complaint was substantiated by the survey agency.

EMERGENCY PREPAREDNESS AND RESPONSE

Multiple snow storms impacted the Network 4 area in the winter of 2015–2016. When severe weather approached and was predicted to impact the operations of the dialysis facilities in the Network’s service area, an e-blast was sent out to the facilities. The facilities reported their status to Network 4 using a Web-based facility reporting tool: closure; alternate treatment schedule; transient status of patients sent to a backup facility; loss of power or on generator power.

Network 4 worked with individual facilities, the Kidney Community Emergency Response (KCER) program, the City of Philadelphia Emergency Management Department, and large and small dialysis organization (LDO and SDO) corporate administrators regarding inclement weather. Conference calls were held prior to and during storms when necessary to share key information including geographic areas without power, facilities operating on generators, facility closures, facilities operating on altered schedules, and patients and transients impacted. Network 4 also monitored each storm as it progressed via various media: the National Oceanic and Atmospheric Administration site (www.noaa.gov); the national Weather Channel site (www.weather.gov); and local/national radio stations.

Emergency Preparedness Activities and Meetings

- In 2016, Network 4 continued to participate in the Government Emergency Telecommunications Service (GETS) and/or the Wireless Priority Service (WPS). These services provide a mechanism through which subscriber phone calls will be given priority service in emergencies, when phone systems are over utilized and can sometimes lead to calls not being connected.

DATA TABLES

- Data Table 1: Incident (New) ESRD Patients in Network 4's Service Area, by Patient Characteristics
- Data Table 2: Prevalent Dialysis Patients in Network 4's Service Area, by Patient Characteristics
- Data Table 3: In-Home Dialysis Patients In Network 4's Service Area, by Dialysis Facility and Modality
- Data Table 4: In-Center Dialysis Patients in Network 4's Service Area, by Dialysis Facility and Modality
- Data Table 5: Number of Transplants Performed in Network 4's Service Area, by Transplant Center and Donor Type and Number of Patients on Transplant Waiting List in Network 4's Service Area, by Transplant Center
- Data Table 6: Renal Transplant Recipients in Network 4's Service Area, by Patient Characteristics
- Data Table 7: Deaths among Dialysis Patients in Network 4's Service Area, by Patient Characteristics
- Data Table 8a: Vocational Rehabilitation Status, Employment Status, and School Attendance of Prevalent Dialysis Patients Age 18–54 Years in Network 4's Service Area
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- Data Table 9a: Incident ESRD Patients in Network 4's Service Area, by Ethnicity and Race
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- Data Table 9c: Renal Transplant Recipients in Network 4's Service Area, by Ethnicity and Race

Network 4						Created: May 19, 2017
Table 1. Incident (New) ESRD Patients in Network 4's Service Area, by Patient Characteristics						
January 1, 2016 - December 31, 2016						
Network 4's Service Area	Delaware	Pennsylvania	Other	Total	Percent	
Age Group						
<= 4 Years	0	9	3	12	0.2%	
5-9 Years	1	6	1	8	0.1%	
10-14 Years	1	6	6	13	0.2%	
15-19 Years	3	13	2	18	0.3%	
20-24 Years	4	32	2	38	0.7%	
25-29 Years	3	56	6	65	1.2%	
30-34 Years	7	72	2	81	1.5%	
35-39 Years	10	97	11	118	2.2%	
40-44 Years	13	167	9	189	3.5%	
45-49 Years	25	248	11	284	5.3%	
50-54 Years	28	352	16	396	7.4%	
55-59 Years	41	518	31	590	11.0%	
60-64 Years	47	626	24	697	13.0%	
65-69 Years	57	689	29	775	14.5%	
70-74 Years	55	616	16	687	12.9%	
75-79 Years	25	552	16	593	11.1%	
80-84 Years	24	429	13	466	8.7%	
>= 85 Years	12	294	5	311	5.8%	
Total	356	4782	203	5341	100.0%	
Median Age	64	66	60	66		
Gender						
Female	145	1946	87	2178	40.8%	
Male	211	2836	116	3163	59.2%	
Total	356	4782	203	5341	100.0%	
Ethnicity*						
Hispanic or Latino	14	210	12	236	4.4%	
Not Hispanic or Latino	341	4548	187	5076	95.0%	
Not Specified	1	24	4	29	0.5%	
Total	356	4782	203	5341	100.0%	
Race*						
American Indian/Alaska Native	0	1	0	1	0.0%	
Asian	10	76	5	91	1.7%	
Black or African American	125	1049	32	1206	22.6%	

Network 4's Service Area	Delaware	Pennsylvania	Other	Total	Percent
Native Hawaiian or Other Pacific Islander	0	19	1	20	0.4%
White	219	3610	161	3990	74.7%
More Than One Race Reported	1	3	0	4	0.1%
Not Specified	1	24	4	29	0.5%
Total	356	4782	203	5341	100.0%
Primary Cause of ESRD*					
Diabetes	164	2207	79	2450	45.9%
Glomerulonephritis	36	284	21	341	6.4%
Secondary Glomerulonephritis/Vasculitis	6	66	4	76	1.4%
Interstitial Nephritis/Pyelonephritis	12	115	4	131	2.5%
Transplant Complications	3	30	4	37	0.7%
Hypertension/Large Vessel Disease	79	1279	37	1395	26.1%
Cystic/Hereditary/Congenital/Other Diseases	8	152	12	172	3.2%
Neoplasms/Tumors	5	92	5	102	1.9%
Disorders of Mineral Metabolism	0	1	0	1	0.0%
Genitourinary System	1	16	0	17	0.3%
Acute Kidney Failure	14	120	5	139	2.6%
Miscellaneous Conditions	9	332	15	356	6.7%
Not Specified	19	88	17	124	2.3%
Network-Level Total	356	4782	203	5341	100.0%

Source of data: CROWNWeb.

*Categories are from the CMS-2728 form.

NOTES:

1. This table includes data on dialysis and transplant patients whose initial "Admit Date" in CROWNWeb was within the calendar year. Excludes patients with a "Discharge Reason" of acute kidney failure.
2. This table may include data on some patients receiving dialysis services from U.S. Department of Veterans Affairs (VA) facilities.
3. Data on "ethnicity" and "race" should be interpreted with caution because of the inherent instability of race/ethnicity data.

Network 4		Created: May 22, 2017			
Table 2. Prevalent Dialysis Patients in Network 4's Service Area, by Patient Characteristics					
As of December 31, 2016					
Network 4's Service Area	Delaware	Pennsylvania	Other	Total	Percent
Age Group					
<= 4 Years	2	14	0	16	0.1%
5-9 Years	2	10	3	15	0.1%
10-14 Years	2	3	4	9	0.0%
15-19 Years	7	20	7	34	0.2%
20-24 Years	10	104	3	117	0.6%
25-29 Years	23	222	9	254	1.3%
30-34 Years	36	341	7	384	1.9%
35-39 Years	55	469	13	537	2.7%
40-44 Years	76	664	27	767	3.8%
45-49 Years	130	1125	23	1278	6.4%
50-54 Years	160	1517	37	1714	8.6%
55-59 Years	192	2081	43	2316	11.6%
60-64 Years	200	2399	58	2657	13.3%
65-69 Years	259	2546	57	2862	14.4%
70-74 Years	191	2125	47	2363	11.9%
75-79 Years	166	1808	34	2008	10.1%
80-84 Years	95	1333	32	1460	7.3%
>= 85 Years	71	1067	10	1148	5.8%
Network-Level Total	1677	17848	414	19939	100.0%
Median Age	63	64	62	64	
Gender					
Female	679	7382	168	8229	41.3%
Male	998	10466	246	11710	58.7%
Total	1677	17848	414	19939	100.0%
Ethnicity*					
Hispanic or Latino	69	945	38	1052	5.3%
Not Hispanic or Latino	1608	16899	376	18883	94.7%
Not Specified	0	4	0	4	0.0%
Total	1677	17848	414	19939	100.0%
Race*					
American Indian/Alaska Native	2	8	4	14	0.1%
Asian	30	288	6	324	1.6%
Black or African American	856	5893	106	6855	34.4%
Native Hawaiian or Other Pacific Islander	3	70	0	73	0.4%

White	786	11563	298	12647	63.4%
Network 4's Service Area	Delaware	Pennsylvania	Other	Total	Percent
More Than One Race Reported	0	23	0	23	0.1%
Not Specified	0	3	0	3	0.0%
Total	1677	17848	414	19939	100.0%
Primary Cause of ESRD*					
Diabetes	656	7675	166	8497	42.6%
Glomerulonephritis	201	1459	36	1696	8.5%
Secondary Glomerulonephritis/Vasculitis	46	369	15	430	2.2%
Interstitial Nephritis/Pyelonephritis	51	526	9	586	2.9%
Transplant Complications	3	34	2	39	0.2%
Hypertension/Large Vessel Disease	399	4965	103	5467	27.4%
Cystic/Hereditary/Congenital/Other Diseases	56	668	22	746	3.7%
Neoplasms/Tumors	55	731	21	807	4.0%
Disorders of Mineral Metabolism	0	1	0	1	0.0%
Genitourinary System	1	18	0	19	0.1%
Acute Kidney Failure	11	94	2	107	0.5%
Miscellaneous Conditions	104	1175	33	1312	6.6%
Not Specified	94	133	5	232	1.2%
Network-Level Total	1677	17848	414	19939	100.0%

Source of data: CROWNWeb.

*Categories are from the CMS-2728 form.

NOTES:

1. This table includes data on all patients identified in CROWNWeb as alive and receiving dialysis services as of December 31 of the calendar year.
2. This table may include data on some patients receiving dialysis services from U.S. Department of Veterans Affairs (VA) facilities.
3. Data on "ethnicity" and "race" should be interpreted with caution because of the inherent instability of race/ethnicity data.

Network 4					Created: May 22, 2017	
Table 3: In-Home Dialysis Patients In Network 4's Service Area, by Dialysis Facility and Modality						
As of December 31, 2016						
Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
080001	0	0	0	0	0	17
080004	0	0	0	0	0	2
08002F	0	0	0	0	0	37
082501	0	0	0	0	0	70
082502	0	0	0	0	0	99
082503	0	0	0	0	0	73
082505	0	3	23	0	26	122
082506	0	0	0	0	0	79
082507	7	2	18	0	27	116
082508	2	1	4	0	7	34
082509	0	0	0	0	0	94
082510	0	0	0	0	0	46
082511	0	0	0	0	0	65
082512	0	0	0	0	0	66
082513	0	0	0	0	0	58
082514	0	0	0	0	0	53
082515	3	2	19	0	24	96
082516	0	0	0	0	0	76
082517	0	2	16	0	18	84
082518	0	5	17	0	22	81
082519	0	0	0	0	0	50
082520	35	13	77	0	125	130
082521	0	0	0	0	0	63
082522	0	9	2	0	11	54
082523	0	7	1	0	8	22
082524	0	0	0	0	0	22
082525	0	0	0	0	0	1
083300	0	0	8	0	8	13
DE Total	47	44	185	0	276	1723
390006	0	3	13	0	16	16
39005F	0	0	0	0	0	44
39012F	4	1	6	0	11	40
39013F	0	0	0	0	0	12
390142	0	4	12	0	16	16
390164	0	0	0	0	0	10

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
390256	0	0	23	0	23	64
392501	0	0	0	0	0	47
392502	0	1	0	0	1	77
392505	0	0	0	0	0	113
392506	1	0	1	0	2	47
392507	3	0	0	0	3	64
392508	0	0	0	0	0	137
392509	0	0	0	0	0	111
392511	6	3	15	0	24	118
392512	1	0	15	0	16	147
392513	0	0	0	0	0	58
392515	1	0	7	0	8	85
392516	0	0	0	0	0	32
392517	2	1	1	0	4	80
392518	1	6	5	0	12	79
392520	0	0	0	0	0	51
392521	0	0	0	0	0	147
392522	0	2	21	0	23	120
392523	1	0	8	0	9	66
392524	0	0	0	0	0	33
392528	0	0	0	0	0	117
392530	0	0	0	0	0	97
392531	0	0	0	0	0	100
392532	0	0	7	0	7	57
392533	0	0	0	0	0	93
392534	4	0	8	0	12	65
392535	0	0	3	0	3	47
392536	0	0	0	0	0	100
392537	5	1	8	0	14	95
392538	0	0	0	0	0	129
392539	0	1	11	0	12	144
392542	0	0	0	0	0	66
392543	0	0	0	0	0	119
392544	0	0	0	0	0	45
392545	0	0	0	0	0	36
392546	0	2	6	0	8	92
392547	0	4	8	0	12	59
392548	0	8	10	0	18	147
392549	0	7	18	0	25	197
392551	0	0	0	0	0	76

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
392552	0	1	6	0	7	60
392553	0	3	15	0	18	115
392554	0	0	3	0	3	65
392555	0	0	0	0	0	60
392556	0	0	0	0	0	89
392557	0	2	5	0	7	97
392559	0	0	0	0	0	57
392560	2	1	15	1	19	90
392561	0	0	0	0	0	57
392562	0	0	0	0	0	83
392563	0	0	0	0	0	34
392565	0	0	0	0	0	59
392567	0	0	6	0	6	80
392568	0	0	0	0	0	88
392569	0	0	0	0	0	131
392573	0	1	8	0	9	57
392574	0	1	8	0	9	75
392575	0	0	5	0	5	68
392576	0	0	0	0	0	30
392577	0	0	0	0	0	62
392578	0	0	0	0	0	20
392579	0	0	0	0	0	46
392580	0	0	0	0	0	28
392581	0	0	7	0	7	76
392582	0	0	0	0	0	49
392584	4	0	2	0	6	49
392586	0	0	0	0	0	47
392587	0	5	9	0	14	178
392588	0	0	6	0	6	52
392590	0	0	0	0	0	42
392592	0	1	13	0	14	58
392594	0	1	5	0	6	100
392595	1	1	4	0	6	62
392597	0	0	2	0	2	26
392598	0	2	1	0	3	101
392600	0	0	3	0	3	44
392601	0	0	0	0	0	79
392602	0	1	3	0	4	41
392603	3	0	0	0	3	114
392604	0	0	0	0	0	30

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
392605	0	0	4	0	4	144
392606	0	0	0	0	0	67
392609	0	0	0	0	0	85
392610	4	3	19	0	26	99
392612	0	0	4	0	4	53
392613	0	0	0	0	0	59
392614	8	1	33	0	42	133
392616	4	0	5	0	9	62
392617	1	0	0	0	1	59
392619	0	2	24	0	26	110
392620	2	2	1	0	5	54
392621	0	0	0	0	0	47
392622	0	0	0	0	0	19
392623	0	1	0	0	1	38
392626	0	0	0	0	0	28
392627	0	0	3	0	3	26
392628	14	2	17	0	33	79
392630	4	4	21	0	29	78
392631	0	0	0	0	0	85
392632	0	0	0	0	0	47
392633	0	1	12	0	13	115
392634	0	2	6	0	8	53
392635	0	0	0	0	0	111
392636	0	3	7	0	10	48
392637	0	0	0	0	0	16
392638	0	0	0	0	0	45
392639	0	0	0	0	0	28
392640	0	0	0	0	0	80
392641	0	3	0	0	3	37
392642	0	0	0	0	0	17
392644	0	0	0	0	0	24
392646	0	0	1	0	1	35
392647	0	0	9	0	9	72
392648	0	1	8	0	9	78
392649	1	1	7	0	9	81
392650	0	0	0	0	0	18
392651	0	0	11	0	11	72
392653	0	0	0	0	0	57
392656	0	2	0	0	2	62
392657	0	0	1	0	1	35

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
392658	5	0	13	0	18	180
392659	4	2	13	0	19	52
392660	0	0	0	0	0	20
392662	0	0	0	0	0	76
392663	0	0	0	0	0	71
392664	0	0	0	0	0	105
392665	0	0	0	0	0	47
392666	0	0	4	0	4	42
392669	0	0	0	0	0	28
392670	0	0	0	0	0	66
392671	0	0	0	0	0	62
392672	0	0	0	0	0	61
392674	0	0	1	0	1	45
392676	0	0	3	0	3	34
392677	0	0	7	0	7	83
392678	0	0	0	0	0	46
392681	1	1	1	0	3	27
392682	0	0	0	0	0	73
392683	2	1	1	0	4	57
392684	0	0	0	0	0	88
392685	0	2	3	0	5	44
392686	0	0	6	0	6	44
392687	1	1	11	0	13	109
392688	0	0	1	0	1	55
392689	0	0	0	0	0	53
392690	0	0	0	0	0	25
392691	0	0	8	0	8	60
392692	3	1	6	0	10	34
392694	0	0	0	0	0	37
392695	0	0	1	0	1	22
392698	0	0	5	0	5	28
392699	0	0	0	0	0	42
392700	0	0	0	0	0	40
392701	0	0	0	0	0	43
392702	0	8	8	0	16	105
392704	0	0	0	0	0	51
392705	0	0	0	0	0	44
392706	0	0	0	0	0	69
392707	0	2	4	0	6	92
392708	3	1	6	0	10	33

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
392710	4	0	0	0	4	41
392711	0	5	11	0	16	76
392713	0	2	5	0	7	65
392714	0	0	0	0	0	77
392715	0	0	0	0	0	47
392716	0	0	0	0	0	58
392717	0	2	9	0	11	59
392718	0	0	0	0	0	72
392719	0	0	0	0	0	24
392720	0	2	7	0	9	65
392721	0	0	0	0	0	62
392723	1	1	24	0	26	83
392724	0	0	0	0	0	40
392725	0	0	0	0	0	41
392726	0	0	0	0	0	41
392727	1	1	7	0	9	92
392729	0	0	0	0	0	52
392731	0	3	8	0	11	109
392732	0	0	0	0	0	13
392733	0	0	0	0	0	85
392734	2	1	9	0	12	42
392735	0	0	3	0	3	66
392736	0	0	8	0	8	111
392738	0	0	0	0	0	43
392739	0	6	19	0	25	102
392740	2	0	3	0	5	27
392741	4	3	5	0	12	99
392742	0	0	3	0	3	86
392743	2	0	10	0	12	75
392746	1	2	5	0	8	70
392747	0	0	4	0	4	44
392748	0	0	2	0	2	80
392749	0	0	0	0	0	74
392750	0	0	5	0	5	34
392751	0	0	0	0	0	103
392752	2	4	10	0	16	91
392753	0	0	0	0	0	90
392754	0	0	0	0	0	16
392755	3	1	3	0	7	36
392756	26	3	30	0	59	60

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
392759	0	0	0	0	0	55
392761	0	0	0	0	0	38
392763	0	2	2	0	4	53
392764	0	0	0	0	0	49
392765	0	1	0	0	1	57
392766	0	0	4	0	4	108
392767	0	0	0	0	0	35
392768	0	0	4	0	4	48
392769	2	2	9	1	14	103
392770	0	0	0	0	0	36
392771	0	0	0	0	0	36
392772	11	1	16	0	28	28
392773	0	2	12	0	14	104
392775	0	0	13	0	13	13
392776	0	2	6	0	8	53
392777	0	2	5	0	7	81
392778	0	0	2	0	2	40
392779	0	1	3	0	4	50
392780	0	0	2	0	2	22
392781	1	0	0	0	1	91
392782	0	0	4	0	4	40
392783	1	0	6	0	7	49
392784	0	0	3	0	3	44
392785	27	8	57	1	93	158
392786	0	3	5	0	8	81
392787	12	9	60	0	81	133
392788	0	1	6	0	7	65
392789	1	2	5	0	8	32
392790	0	2	14	0	16	69
392791	0	4	17	0	21	119
392792	0	0	0	0	0	78
392794	0	0	0	0	0	28
392796	32	7	67	0	106	106
392797	9	0	10	0	19	99
392798	0	0	0	0	0	79
392800	0	4	12	0	16	39
392801	0	0	1	0	1	30
392802	2	1	4	0	7	88
392803	0	0	31	0	31	194
392804	3	4	14	0	21	21

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
392805	1	0	6	0	7	39
392806	0	1	5	0	6	64
392807	0	0	3	0	3	59
392808	0	0	0	0	0	11
392809	0	0	0	0	0	41
392810	0	0	4	0	4	80
392811	4	6	27	0	37	37
392813	11	3	21	0	35	35
392814	0	0	0	0	0	17
392815	0	0	0	0	0	30
392816	0	24	5	0	29	29
392817	0	1	11	0	12	141
392818	0	0	0	0	0	43
392820	1	0	0	0	1	45
392821	0	0	0	0	0	32
392822	0	0	0	0	0	46
392823	0	0	0	0	0	68
392825	0	0	1	0	1	22
392826	0	0	0	0	0	51
392827	0	0	0	0	0	55
392828	0	2	2	0	4	27
392829	0	0	0	0	0	23
392830	2	0	1	0	3	22
392831	4	0	0	0	4	39
392832	7	0	0	0	7	13
392833	0	0	0	0	0	16
392834	0	1	4	0	5	27
392835	0	0	0	0	0	27
392836	0	0	0	0	0	20
392837	0	0	1	0	1	19
392838	11	0	23	0	34	189
392839	0	0	10	0	10	101
392840	4	1	4	0	9	9
392841	9	1	7	0	17	24
392842	0	0	3	0	3	10
392843	0	0	0	0	0	18
392844	0	4	9	0	13	74
392845	0	0	0	0	0	6
392846	0	0	0	0	0	18
392847	0	9	9	0	18	27

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
392848	0	0	0	0	0	86
392849	0	0	0	0	0	1
392850	0	4	21	0	25	25
392851	0	0	0	0	0	6
392852	0	0	0	0	0	1
392853	0	0	0	0	0	8
393302	0	1	2	0	3	6
393303	0	0	16	0	16	26
393307	0	0	4	0	4	10
393518	0	0	0	0	0	71
PA Total	299	263	1410	3	1975	18240
Network Total	346	307	1595	3	2251	19963
Source of data: ESRD Facility Survey (CMS-2744A) as recorded in CROWNWeb.						
HD = Hemodialysis						
CAPD = Continuous Ambulatory Peritoneal Dialysis						
CCPD = Continuous Cycling Peritoneal Dialysis						
NOTE: This table may include data for some U.S. Department of Veterans Affairs (VA) facilities.						

Network 4

Table 4. In-Center Dialysis Patients in Network 4's Service Area, by Dialysis Facility and Modality

As of December 31, 2016

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
080001	17	0	17	17
080004	2	0	2	2
08002F	37	0	37	37
082501	70	0	70	70
082502	99	0	99	99
082503	73	0	73	73
082505	96	0	96	122
082506	79	0	79	79
082507	89	0	89	116
082508	27	0	27	34
082509	94	0	94	94
082510	46	0	46	46
082511	65	0	65	65
082512	66	0	66	66
082513	58	0	58	58
082514	53	0	53	53
082515	72	0	72	96
082516	76	0	76	76
082517	66	0	66	84
082518	59	0	59	81
082519	50	0	50	50
082520	5	0	5	130
082521	63	0	63	63
082522	42	1	43	54
082523	14	0	14	22
082524	22	0	22	22
082525	1	0	1	1
083300	5	0	5	13
DE Total	1446	1	1447	1723
390006	0	0	0	16
39005F	44	0	44	44
39012F	29	0	29	40
39013F	11	1	12	12
390142	0	0	0	16
390164	10	0	10	10
390256	41	0	41	64
392501	47	0	47	47
392502	76	0	76	77
392505	113	0	113	113
392506	45	0	45	47
392507	61	0	61	64
392508	137	0	137	137

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
392509	111	0	111	111
392511	94	0	94	118
392512	131	0	131	147
392513	58	0	58	58
392515	77	0	77	85
392516	32	0	32	32
392517	76	0	76	80
392518	67	0	67	79
392520	51	0	51	51
392521	147	0	147	147
392522	96	1	97	120
392523	57	0	57	66
392524	33	0	33	33
392528	117	0	117	117
392530	97	0	97	97
392531	100	0	100	100
392532	50	0	50	57
392533	93	0	93	93
392534	53	0	53	65
392535	44	0	44	47
392536	100	0	100	100
392537	81	0	81	95
392538	129	0	129	129
392539	132	0	132	144
392541	0	0	0	0
392542	66	0	66	66
392543	119	0	119	119
392544	45	0	45	45
392545	36	0	36	36
392546	84	0	84	92
392547	47	0	47	59
392548	129	0	129	147
392549	172	0	172	197
392551	76	0	76	76
392552	53	0	53	60
392553	97	0	97	115
392554	62	0	62	65
392555	60	0	60	60
392556	89	0	89	89
392557	90	0	90	97
392559	57	0	57	57
392560	71	0	71	90
392561	57	0	57	57
392562	83	0	83	83
392563	34	0	34	34
392565	59	0	59	59
392567	74	0	74	80
392568	88	0	88	88

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
392569	131	0	131	131
392573	48	0	48	57
392574	66	0	66	75
392575	63	0	63	68
392576	30	0	30	30
392577	62	0	62	62
392578	20	0	20	20
392579	46	0	46	46
392580	28	0	28	28
392581	69	0	69	76
392582	49	0	49	49
392584	43	0	43	49
392586	47	0	47	47
392587	164	0	164	178
392588	46	0	46	52
392590	42	0	42	42
392592	44	0	44	58
392594	94	0	94	100
392595	56	0	56	62
392597	24	0	24	26
392598	98	0	98	101
392600	41	0	41	44
392601	79	0	79	79
392602	37	0	37	41
392603	111	0	111	114
392604	30	0	30	30
392605	140	0	140	144
392606	67	0	67	67
392609	85	0	85	85
392610	73	0	73	99
392612	49	0	49	53
392613	59	0	59	59
392614	91	0	91	133
392616	53	0	53	62
392617	58	0	58	59
392619	84	0	84	110
392620	49	0	49	54
392621	47	0	47	47
392622	19	0	19	19
392623	37	0	37	38
392626	28	0	28	28
392627	23	0	23	26
392628	46	0	46	79
392630	49	0	49	78
392631	85	0	85	85
392632	47	0	47	47
392633	102	0	102	115
392634	45	0	45	53

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
392635	111	0	111	111
392636	38	0	38	48
392637	16	0	16	16
392638	45	0	45	45
392639	28	0	28	28
392640	80	0	80	80
392641	34	0	34	37
392642	17	0	17	17
392644	24	0	24	24
392646	34	0	34	35
392647	63	0	63	72
392648	69	0	69	78
392649	72	0	72	81
392650	18	0	18	18
392651	61	0	61	72
392653	57	0	57	57
392656	60	0	60	62
392657	34	0	34	35
392658	161	1	162	180
392659	33	0	33	52
392660	20	0	20	20
392662	76	0	76	76
392663	71	0	71	71
392664	105	0	105	105
392665	47	0	47	47
392666	38	0	38	42
392669	28	0	28	28
392670	66	0	66	66
392671	62	0	62	62
392672	61	0	61	61
392674	44	0	44	45
392676	31	0	31	34
392677	76	0	76	83
392678	46	0	46	46
392681	24	0	24	27
392682	73	0	73	73
392683	53	0	53	57
392684	88	0	88	88
392685	39	0	39	44
392686	38	0	38	44
392687	96	0	96	109
392688	54	0	54	55
392689	53	0	53	53
392690	25	0	25	25
392691	52	0	52	60
392692	24	0	24	34
392694	37	0	37	37
392695	21	0	21	22

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
392698	23	0	23	28
392699	42	0	42	42
392700	40	0	40	40
392701	43	0	43	43
392702	89	0	89	105
392704	51	0	51	51
392705	44	0	44	44
392706	69	0	69	69
392707	86	0	86	92
392708	23	0	23	33
392710	37	0	37	41
392711	60	0	60	76
392713	58	0	58	65
392714	77	0	77	77
392715	47	0	47	47
392716	58	0	58	58
392717	48	0	48	59
392718	72	0	72	72
392719	24	0	24	24
392720	56	0	56	65
392721	62	0	62	62
392723	57	0	57	83
392724	40	0	40	40
392725	41	0	41	41
392726	41	0	41	41
392727	83	0	83	92
392729	52	0	52	52
392731	98	0	98	109
392732	13	0	13	13
392733	85	0	85	85
392734	30	0	30	42
392735	63	0	63	66
392736	103	0	103	111
392738	43	0	43	43
392739	77	0	77	102
392740	22	0	22	27
392741	86	1	87	99
392742	83	0	83	86
392743	63	0	63	75
392746	62	0	62	70
392747	40	0	40	44
392748	78	0	78	80
392749	74	0	74	74
392750	29	0	29	34
392751	103	0	103	103
392752	75	0	75	91
392753	90	0	90	90
392754	16	0	16	16

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
392755	29	0	29	36
392756	1	0	1	60
392759	55	0	55	55
392761	38	0	38	38
392763	49	0	49	53
392764	49	0	49	49
392765	56	0	56	57
392766	104	0	104	108
392767	35	0	35	35
392768	44	0	44	48
392769	88	1	89	103
392770	36	0	36	36
392771	36	0	36	36
392772	0	0	0	28
392773	90	0	90	104
392775	0	0	0	13
392776	45	0	45	53
392777	74	0	74	81
392778	38	0	38	40
392779	46	0	46	50
392780	20	0	20	22
392781	89	1	90	91
392782	36	0	36	40
392783	42	0	42	49
392784	41	0	41	44
392785	65	0	65	158
392786	73	0	73	81
392787	52	0	52	133
392788	58	0	58	65
392789	24	0	24	32
392790	53	0	53	69
392791	97	1	98	119
392792	78	0	78	78
392794	28	0	28	28
392796	0	0	0	106
392797	80	0	80	99
392798	79	0	79	79
392800	23	0	23	39
392801	29	0	29	30
392802	81	0	81	88
392803	162	1	163	194
392804	0	0	0	21
392805	32	0	32	39
392806	58	0	58	64
392807	56	0	56	59
392808	11	0	11	11
392809	41	0	41	41
392810	76	0	76	80

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
392811	0	0	0	37
392813	0	0	0	35
392814	17	0	17	17
392815	30	0	30	30
392816	0	0	0	29
392817	129	0	129	141
392818	43	0	43	43
392819	0	0	0	0
392820	44	0	44	45
392821	32	0	32	32
392822	46	0	46	46
392823	68	0	68	68
392825	21	0	21	22
392826	51	0	51	51
392827	55	0	55	55
392828	23	0	23	27
392829	23	0	23	23
392830	19	0	19	22
392831	35	0	35	39
392832	6	0	6	13
392833	16	0	16	16
392834	22	0	22	27
392835	27	0	27	27
392836	20	0	20	20
392837	18	0	18	19
392838	155	0	155	189
392839	91	0	91	101
392840	0	0	0	9
392841	7	0	7	24
392842	7	0	7	10
392843	18	0	18	18
392844	61	0	61	74
392845	6	0	6	6
392846	18	0	18	18
392847	9	0	9	27
392848	86	0	86	86
392849	1	0	1	1
392850	0	0	0	25
392851	6	0	6	6
392852	1	0	1	1
392853	8	0	8	8
393302	3	0	3	6
393303	10	0	10	26

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
393307	6	0	6	10
393518	71	0	71	71
PA Total	16257	8	16265	18240
Network Total	17703	9	17712	19963
Source of data: ESRD Facility Survey (CMS-2744A) as recorded in CROWNWeb.				
HD = Hemodialysis				
PD = Peritoneal Dialysis				
NOTE: This table may include data for some U.S. Department of Veterans Affairs (VA) facilities.				

Network 4							Created: May 22, 2017
Table 5: Number of Transplants Performed in Network 4's Service Area, by Transplant Center and Donor Type and Number of Patients on Transplant Waiting List* in Network 4's Service Area, by Transplant Center							
January 1, 2016 - December 31, 2016							
State	Deceased Donor	Living Related Donor	Living Unrelated Donor	Unknown Donor Type	Total Transplants Performed	Patients on Transplant Waiting List	
080001	21	0	3	0	24	227	
083300	4	4	0	0	8	14	
DE Total	25	4	3	0	32	241	
390006	26	7	9	0	42	272	
390027	54	4	1	0	59	59	
390050	81	9	14	0	104	351	
390067	18	6	18	0	42	279	
390111	134	22	24	0	180	1175	
39012F	48	4	4	0	56	0	
390133	65	16	7	0	88	428	
390142	69	1	0	0	70	768	
390164	150	22	35	0	207	624	
390174	70	10	7	0	87	601	
390180	9	2	1	0	12	81	
390195	26	5	10	0	41	135	
390256	18	5	8	0	31	31	
390290	40	3	1	0	44	455	
393302	8	6	5	0	19	10	
393303	9	7	0	0	16	35	
399817	0	0	0	0	0	3	
399818	0	0	0	0	0	0	
PA Total	825	129	144	0	1098	5307	
Network Total	850	133	147	0	1130	5548	

Source of data: CROWNWeb. Information on patients awaiting transplant comes from the ESRD Facility Survey completed by transplant centers (Form CMS-2744B).

*As of December 31, 2016.

NOTE: Cumulative total for January 1, 2016 – December 31, 2016. A patient who had more than one transplant during the calendar year is represented more than once in the table.

Network 4		Created: May 22, 2017			
Table 6: Renal Transplant* Recipients in Network 4's Service Area, by Patient Characteristics					
January 1, 2016 - December 31, 2016					
Network 4's Service Area	Delaware	Pennsylvania	Other	Total	Percent
Age Group					
<= 4 Years	0	2	5	7	0.6%
5-9 Years	0	7	4	11	1.0%
10-14 Years	1	11	5	17	1.5%
15-19 Years	1	14	1	16	1.4%
20-24 Years	1	20	3	24	2.1%
25-29 Years	0	33	5	38	3.4%
30-34 Years	1	33	10	44	3.9%
35-39 Years	3	51	24	78	6.9%
40-44 Years	2	59	23	84	7.5%
45-49 Years	2	74	20	96	8.5%
50-54 Years	3	84	32	119	10.6%
55-59 Years	10	121	40	171	15.2%
60-64 Years	8	129	33	170	15.1%
65-69 Years	5	109	44	158	14.0%
70-74 Years	6	45	14	65	5.8%
75-79 Years	0	21	7	28	2.5%
80-84 Years	0	1	0	1	0.1%
>= 85 Years	0	0	0	0	0.0%
Total	43	814	270	1127	100.0%
Median Age					
	59	56	55	55	
Gender					
Female	19	319	92	430	38.2%
Male	24	495	178	697	61.8%
Total	43	814	270	1127	100.0%
Ethnicity*					
Hispanic or Latino	3	39	19	61	5.4%
Not Hispanic or Latino	39	752	247	1038	92.1%
Not Specified	1	23	4	28	2.5%
Total	43	814	270	1127	100.0%
Race*					
American Indian/Alaska Native	0	0	0	0	0.0%
Asian	0	21	11	32	2.8%
Black or African American	20	254	92	366	32.5%
Native Hawaiian or Other Pacific Islander	0	3	2	5	0.4%

Network 4's Service Area	Delaware	Pennsylvania	Other	Total	Percent
White	22	513	159	694	61.6%
More Than One Race Reported	0	1	1	2	0.2%
Not Specified	1	22	5	28	2.5%
Total	43	814	270	1127	100.0%
Primary Cause of ESRD**					
Diabetes	15	201	67	283	25.1%
Glomerulonephritis	6	140	53	199	17.7%
Secondary Glomerulonephritis/Vasculitis	1	36	13	50	4.4%
Interstitial Nephritis/Pyelonephritis	0	25	5	30	2.7%
Transplant Complications	0	2	0	2	0.2%
Hypertension/Large Vessel Disease	8	173	53	234	20.8%
Cystic/Hereditary/Congenital/Other Diseases	5	93	32	130	11.5%
Neoplasms/Tumors	1	44	12	57	5.1%
Disorders of Mineral Metabolism	0	0	0	0	0.0%
Genitourinary System	0	1	0	1	0.1%
Acute Kidney Failure	0	1	3	4	0.4%
Miscellaneous Conditions	4	55	19	78	6.9%
Not Specified	3	43	13	59	5.2%
Total	43	814	270	1127	100.0%

Source of data: CROWNWeb.

*Data are shown for unduplicated patients. A patient who had more than one transplant during the calendar year is counted only once in the table.

**Categories are from the CMS-2728 form.

NOTES:

1. Data on “ethnicity” and “race” should be interpreted with caution because of the inherent instability of race/ethnicity data.

Network 4		Created: May 22, 2017			
Table 7. Deaths among Dialysis Patients in Network 4's Service Area, by Patient Characteristics					
January 1, 2016 - December 31, 2016					
Network 4's Service Area	Delaware	Pennsylvania	Other	Total	Percent
Age Group					
<= 4 Years	0	0	0	0	0.0%
5-9 Years	0	0	0	0	0.0%
10-14 Years	0	0	0	0	0.0%
15-19 Years	0	1	0	1	0.0%
20-24 Years	0	2	0	2	0.0%
25-29 Years	2	13	0	15	0.4%
30-34 Years	0	22	1	23	0.6%
35-39 Years	2	33	0	35	0.9%
40-44 Years	6	53	2	61	1.5%
45-49 Years	2	96	4	102	2.5%
50-54 Years	14	160	2	176	4.4%
55-59 Years	28	280	3	311	7.7%
60-64 Years	39	396	4	439	10.9%
65-69 Years	35	520	11	566	14.1%
70-74 Years	44	549	13	606	15.1%
75-79 Years	43	525	12	580	14.4%
80-84 Years	46	512	10	568	14.1%
>= 85 Years	41	491	7	539	13.4%
Total	302	3653	69	4024	100.0%
Median Age					
	72	72	72	72	
Gender					
Female	115	1532	22	1669	41.5%
Male	187	2121	47	2355	58.5%
Total	302	3653	69	4024	100.0%
Ethnicity*					
Hispanic or Latino	5	107	3	115	2.9%
Not Hispanic or Latino	297	3544	66	3907	97.1%
Not Specified		2		2	0.0%
Total	302	3653	69	4024	100.0%
Race*					
American Indian/Alaska Native	0	0	0	0	0.0%
Asian	4	25	1	30	0.7%
Black or African American	113	792	8	913	22.7%
Native Hawaiian or Other Pacific Islander	0	10	0	10	0.2%

Network 4's Service Area	Delaware	Pennsylvania	Other	Total	Percent
White	184	2822	60	3066	76.2%
More Than One Race Reported	1	2	0	3	0.1%
Not Specified		2		2	0.0%
Total	302	3653	69	4024	100.0%
Primary Cause of ESRD*					
Diabetes	132	1690	33	1855	46.1%
Glomerulonephritis	26	177	7	210	5.2%
Secondary Glomerulonephritis/Vasculitis	4	43	3	50	1.2%
Interstitial Nephritis/Pyelonephritis	7	99	0	106	2.6%
Transplant Complications	1	10	0	11	0.3%
Hypertension/Large Vessel Disease	71	974	14	1059	26.3%
Cystic/Hereditary/Congenital/ Other Diseases	9	69	2	80	2.0%
Neoplasms/Tumors	13	153	1	167	4.2%
Disorders of Mineral Metabolism	0	1	0	1	0.0%
Genitourinary System	0	3	0	3	0.1%
Acute Kidney Failure	5	40	0	45	1.1%
Miscellaneous Conditions	23	342	6	371	9.2%
Not Specified	11	52	3	66	1.6%
Total	302	3653	69	4024	100.0%
Primary Cause of Death**					
Cardiac	53	1229	20	1302	32.4%
Endocrine	0	0	0	0	0.0%
Gastrointestinal	2	34	0	36	0.9%
Infection	15	261	5	281	7.0%
Liver Disease	0	29	0	29	0.7%
Metabolic	0	16	0	16	0.4%
Vascular	6	133	2	141	3.5%
Other	71	994	14	1079	26.8%
Unknown	76	793	24	893	22.2%
Not Specified	79	164	4	247	6.1%
Total	302	3653	69	4024	100.0%

Source of data: CROWNWeb.

*Categories are from the CMS-2728 form.

**Categories are from the CMS-2746 form.

NOTES:

1. This table may include data on some patients who received dialysis services from U.S. Department of Veterans Affairs (VA) facilities.
2. Data on “ethnicity” and “race” should be interpreted with caution because of the inherent instability of race/ethnicity data.

Network 4					
Created: May 23, 2017					
Table 8a: Vocational Rehabilitation Status, Employment Status, and School Attendance of Prevalent Dialysis Patients Age 18–54 Years in Network 4’s Service Area					
As of December 31, 2016					
State	Aged 18 through 54	Referred to Voc Rehab Services	Receiving Voc Rehab Services	Employed Full-Time or Part-Time	Attending School Full-Time or Part-Time
DE	510	2	0	114	0
PA	4558	39	17	854	31
Network Total	5068	41	17	968	31

Source of data: CROWNWeb.

Voc Rehab = Vocational Rehabilitation

Network 4						
Created: May 23, 2017						
Table 8b: Vocational Rehabilitation Status, Employment Status, and School Attendance of Prevalent Dialysis Patients Age 18–54 Years in Network 4's Service Area						
As of December 31, 2016						
Category	Referred to Voc Rehab Services	Receiving Voc Rehab Services	Completed Voc Rehab Services	Not Eligible for Voc Rehab Services	Declined Voc Rehab Services	No Voc Rehab Status
Employed Full-Time						
Attending School Full-Time	0	0	0	0	0	0
Attending School Part-Time	0	2	0	0	0	4
Not Attending School	3	0	0	29	30	34
School Status Not Specified	0	0	0	2	1	621
Employed Part-Time						
Attending School Full-Time	0	1	0	0	0	0
Attending School Part-Time	0	1	0	0	0	4
Not Attending School	3	0	1	5	23	13
School Status Not Specified	0	0	0	0	1	190
Employment Status Not Specified						
Attending School Full-Time	0	0	0	0	0	0
Attending School Part-Time	0	1	0	0	0	0
Not Attending School	0	0	0	0	2	1
School Status Not Specified	0	0	0	0	2	1174
Homemaker						
Attending School Full-Time	0	0	0	0	0	0
Attending School Part-Time	0	0	0	0	0	0
Not Attending School	0	0	0	0	6	0
School Status Not Specified	0	0	0	0	1	56
Retired*						
Attending School Full-Time	0	0	0	0	0	1
Attending School Part-Time	0	0	0	0	0	0
Not Attending School	9	0	2	18	161	36
School Status Not Specified	1	0	1	1	11	749
Medical Leave of Absence						
Attending School Full-Time	0	0	0	1	0	0
Attending School Part-Time	0	0	0	0	0	0
Not Attending School	0	0	0	2	7	10
School Status Not Specified	1	0	0	0	1	149

Category	Referred to Voc Rehab Services	Receiving Voc Rehab Services	Completed Voc Rehab Services	Not Eligible for Voc Rehab Services	Declined Voc Rehab Services	No Voc Rehab Status
Other**						
Attending School Full-Time	0	6	0	0	0	2
Attending School Part-Time	0	1	1	0	1	5
Not Attending School	24	2	0	33	147	110
School Status Not Specified	0	3	0	4	6	1351

Source of data: CROWNWeb.

*Retired due to preference or disability.

**Other = Employment Status of Student or Unemployed

Voc Rehab = Vocational Rehabilitation

Network 4		Created: May 23, 2017	
Table 9a: Incident ESRD Patients in Network 4's Service Area, by Ethnicity and Race			
January 1, 2016 - December 31, 2016			
Ethnicity* Category	Race* Category	Number	Percent
Hispanic or Latino	American Indian/Alaska Native	0	0.0%
	Asian	1	0.4%
	Black or African American	12	5.1%
	Native Hawaiian or Other Pacific Islander	2	0.8%
	White	221	93.6%
	More Than One Race Reported	0	0.0%
	Total	236	100.0%
Not Hispanic or Latino	American Indian/Alaska Native	1	0.0%
	Asian	90	1.8%
	Black or African American	1194	23.5%
	Native Hawaiian or Other Pacific Islander	18	0.4%
	White	3769	74.3%
	More Than One Race Reported	4	0.1%
	Total	5076	100.0%
Ethnicity Not Specified	American Indian/Alaska Native	0	0.0%
	Asian	0	0.0%
	Black or African American	0	0.0%
	Native Hawaiian or Other Pacific Islander	0	0.0%
	White	0	0.0%
	More Than One Race Reported	0	0.0%
	Not Specified	29	100.0%
	Total	29	100.0%
	Total: Incident ESRD Patients	5341	

Source of data: CROWNWeb.

*Categories are from the CMS-2728 form.

NOTES:

1. This table includes data on dialysis and transplant patients whose initial "Admit Date" in CROWNWeb was within the calendar year. Excludes patients with a "Discharge Reason" of acute kidney failure.
2. This table may include data on some patients receiving dialysis services from U.S. Department of Veterans Affairs (VA) facilities.
3. Data on "ethnicity" and "race" should be interpreted with caution because of the inherent instability of race/ethnicity data.

Network 4		Created: May 23, 2017	
Table 9b: Prevalent Dialysis Patients in Network 4's Service Area, by Ethnicity and Race			
January 1, 2016 - December 31, 2016			
Ethnicity* Category	Race* Category	Number	Percent
Hispanic or Latino	American Indian/Alaska Native	0	0.0%
	Asian	1	0.1%
	Black or African American	57	5.4%
	Native Hawaiian or Other Pacific Islander	19	1.8%
	White	967	91.9%
	More Than One Race Reported	8	0.8%
	Total	1052	100.0%
Not Hispanic or Latino	American Indian/Alaska Native	14	0.1%
	Asian	323	1.7%
	Black or African American	6797	36.0%
	Native Hawaiian or Other Pacific Islander	54	0.3%
	White	11680	61.9%
	More Than One Race Reported	15	0.1%
	Total	18883	100.0%
Ethnicity Not Specified	American Indian/Alaska Native	0	0.0%
	Asian	0	0.0%
	Black or African American	1	25.0%
	Native Hawaiian or Other Pacific Islander	0	0.0%
	White	0	0.0%
	More Than One Race Reported	0	0.0%
	Not Specified	3	75.0%
Total	4	100.0%	
Total: Prevalent ESRD Patients		19939	

Source of data: CROWNWeb.

*Categories are from the CMS-2728 form.

NOTES:

1. This table includes data on all patients identified in CROWNWeb as alive and receiving dialysis services as of December 31 of the calendar year.
2. This table may include data on some patients receiving dialysis services from U.S. Department of Veterans Affairs (VA) facilities.
3. Data on "ethnicity" and "race" should be interpreted with caution because of the inherent instability of race/ethnicity data.

Network 4		Created: May 23, 2017	
Table 9c: Renal Transplant Recipients* in Network 4's Service Area, by Ethnicity and Race			
January 1, 2016 - December 31, 2016			
Ethnicity** Category	Race** Category	Number	Percent
Hispanic or Latino	American Indian/Alaska Native	0	0.0%
	Asian	1	1.6%
	Black or African American	5	8.2%
	Native Hawaiian or Other Pacific Islander	3	4.9%
	White	52	85.2%
	More Than One Race Reported	0	0.0%
	Total	61	100.0%
Not Hispanic or Latino	American Indian/Alaska Native	0	0.0%
	Asian	31	3.0%
	Black or African American	361	34.8%
	Native Hawaiian or Other Pacific Islander	2	0.2%
	White	641	61.8%
	More Than One Race Reported	2	0.2%
	Not Specified	1	0.1%
Total	1038	100.0%	
Ethnicity Not Specified	American Indian/Alaska Native	0	0.0%
	Asian	0	0.0%
	Black or African American	0	0.0%
	Native Hawaiian or Other Pacific Islander	0	0.0%
	White	1	3.6%
	More Than One Race Reported	0	0.0%
	Not Specified	27	96.4%
Total	28	100.0%	
	Total: Transplant ESRD Patients	1127	

Source of data: CROWNWeb.

*Data are shown for unduplicated patients. A patient who had more than one transplant during the calendar year is counted only once in the table.

**Categories are from the CMS-2728 form.

NOTES:

1. Data on "ethnicity" and "race" should be interpreted with caution because of the inherent instability of race/ethnicity data.