2015 End Stage
Renal Disease (ESRD)

NETWORK 4 ANNUAL REPORT

Deliverable #11

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Quality Insights
Renal Network 4

Submitted to:
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REPORT HIGHLIGHTS

In 2013, Quality Insights was awarded the End Stage Renal Disease (ESRD) Network 4 contract, resulting in the founding of Quality Insights Renal Network 4 (QIRN4). Since that award, the QIRN4 staff has worked to improve the lives of 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 2015, QIRN4 successfully met CMS' Three-Part Aim by engaging Network area patients, families and caregivers in Network 4 activities and listening to their voices; engaging patients in their dialysis; 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 2015:

We conducted a Quality Improvement Activity to increase the number of kidney transplant referrals, focusing especially on decreasing the gender disparity found in our baseline data. This project not only achieved its goal of increasing referrals, but data indicate that it may have also resulted in more females receiving kidney transplants in 2015 than in 2014.

A second Quality Improvement Activity focused on reducing bloodstream infections by increasing awareness and adherence to the Centers for Disease Control and Prevention (CDC) protocols. Not only did this project result in facilities increasing adherence to CDC recommendations, but data show that BSIs decreased by 32%, from 0.96 to 0.65 infections per 100 patient months over the course of the project.

We enjoyed close collaboration with dialysis providers and the Philadelphia Office of Emergency Management (OEM) in preparing for the Papal visit to the city in September 2015 that closed major portions of the city for several days. Not only were all patients dialyzed without disruption, but area media (http://articles.philly.com/2015-09-29/news/66961221_1_kidney-waiting-list-donor-transplant) carried the story of one ESRD patient who was given special transportation through the closed zone in order to receive a kidney transplant that weekend.

We look forward to continuing our partnerships and our progress in 2016 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.

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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 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 health care 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 (QIRN4) is part of the West Virginia Medical Institute (WVMI) family of health care improvement companies. WVMI holds CMS contracts for the Quality Improvement Network Organizations (QINs) for the states of Pennsylvania, New Jersey, Delaware, Louisiana, and West Virginia and three ESRD Networks: the Mid-Atlantic Renal Coalition (MARC), Quality Insights Renal Network 3 (QIRN3), and Quality Insights Renal Network 4 (QIRN4).

By pooling common administrative services such as information technology (IT), human resources (HR), communications, data/analytic services, and financial services, WVMI provides QIRN4 efficient centralized support while fielding highly engaged and collaborative local staff who have developed trusted relationships with Network area health care provider communities and consumer organizations.

Geographic Description

QIRN4 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, 2015, a total of 17,300 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 278 Medicare-approved dialysis centers, a Medicare-approved Veterans Administration Medical Center (VAMC), or one non-Medicare-approved VAMC unit. As of December 31, 2015, Pennsylvania was home to 8,019 kidney transplant patients who were being monitored by one of 17 Medicare-approved kidney transplant centers or a United Network for Organ Sharing (UNOS)–approved kidney transplant center.

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, 2015, a total of 1,615 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. This state was also home to 2,773 kidney transplant patients who were followed at one of two kidney transplant centers in 2015.

Overall, the Network 4 area was home to 10,892 kidney transplant patients who received health care at one of 19 kidney transplant units and also home to 19,338 chronic dialysis patients who received dialysis services at one of 314 dialysis 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. 16.2% of the facilities in the Network 4 area 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, 2015

Category	Number
Number of Dialysis Facilities in the Network's Service Area	314
Number of Transplant Centers in the Network's Service Area	18

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, 2015

Category	Number	Percent
Number of Dialysis Facilities in the Network's Service Area	314	
Dialysis Facilities in the Network's Service Area Offering Dialysis Shifts Starting after 5 PM	51	16.2

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 2015, the ESRD Network contractors were tasked with meeting the following goals:

- Improving care for ESRD patients in the Network's service area by:
    a. Promoting patient- and family-centered care
    b. Responding to grievances about ESRD-related services filed by, or on behalf of, ESRD patients
    c. Supporting improvement in patients' experience of care
    d. Working with dialysis facilities to ensure that all dialysis patients have access to appropriate care
    e. Promoting best practices in vascular access management; and
    f. 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 2015

Category	Number	Percent
Incident (New) ESRD Patients		
Number of Incident ESRD Patients, Calendar Year 2015	5,121	
Prevalent Dialysis Patients		
Number of Prevalent Dialysis Patients as of December 31, 2015	19,456	
Treatment Modality of Prevalent Dialysis Patients as of December 31, 2015		
In-Center Hemodialysis or Peritoneal Dialysis	17,334	89.1%
In-Home Hemodialysis or Peritoneal Dialysis	2,122	10.9%
Total	19,456	100%
Vascular Access Type at Latest Treatment among Prevalent In-Center and In-Home Hemodialysis Patients as of December 31, 2015		
Arteriovenous Fistula in Use	10,790	63.5%
Arteriovenous Graft in Use	2,890	17.0%
Catheter in Use for 90 Days or Longer	1,820	10.7%
Other	1,541	9.0%
Total	17,041	100.0%
Renal Transplants		
Number of Renal Transplant Recipients,* Calendar Year 2015	1,069	
Total	1,097	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 2015, QIRN4 had several successes in our Quality Improvement Activities (QIAs). The first successful QIA addressed Healthcare-Associated Infections (HAIs). This project focused on improving consistency in the use of the Centers for Disease Control and Prevention (CDC) bloodstream infection (BSI) prevention tools. The second QIA success was the Network's Population Health Innovation Pilot Project, which focused on increasing referrals for kidney transplantation.

HAI Quality Improvement Activity

Background: The U.S. Renal Data System, USRDS 2012 Annual Data Report[1] (as cited in Healthy People 2020, 2013[2]) found that infections, including HAIs, were the second leading cause of death among the ESRD population. Efforts to reduce HAIs in dialysis facilities have been a focus of the federal government and specifically the Centers for Disease Control and Prevention (CDC) since 2009. In 2009, the CDC launched a collaborative project to prevent BSIs among dialysis patients. The participating dialysis

[1] U.S. Renal Data System, USRDS 2012 Annual Data Report: Atlas of Chronic Kidney Disease and End-Stage Renal Disease in the United States, NIH, NIDDK, Bethesda, MD, 2012.
[2] Healthy People 2020. (2013, August 28). The impact of systems improvements: A progress review of healthcare-associated infections & blood disorders and blood safety. Retrieved from http://www.cdc.gov/nchs/ppt/hp2020/hp2020_BDBS_and_HAI_progress_review_presentation.pdf

facilities and the CDC worked together to develop and implement a package of bloodstream infection prevention interventions resulting in a 32 percent decrease in all sources of bloodstream infections and a 54 percent decrease in vascular access-related bloodstream infections[3].

Target Population - Under the direction of the HAI Learning and Action Network (LAN), we engaged 60 Network facilities (20%) with the most opportunity for improvement based on the aggregated mean of the National Healthcare Safety Network (NHSN) bloodstream infections rates for 2014 to participate in the 2015 HAI QIA. This project was active from April 2015 through September 2015. Additional inclusion criteria included facilities with at least four patients with a central venous catheter (CVC). The minimum number of 4 catheter patients was arrived at based on lessons learned from the 2014 HAI QIA. In 2014, facilities with fewer than four CVCs were unable to consistently meet the CDC-recommended minimum number of 10 catheter connection and disconnection audits per month.

Implementation –Patient care technicians, nurses and clinic managers were required to learn and implement three CDC protocols aimed at reducing BSIs. These three protocols addressed hand hygiene, catheter connection and disconnection and cannulation of arteriovenous grafts (AVGs) and arteriovenous fistulas (AVFs). A designated staff member audited staff performance to observe and document the correct or incorrect implementation of each protocol using the provided CDC audit forms. Each facility was required to report a minimum of 30 hand hygiene audits, 10 catheter connection and disconnection audits and 10 AVG/AVF cannulation audits.

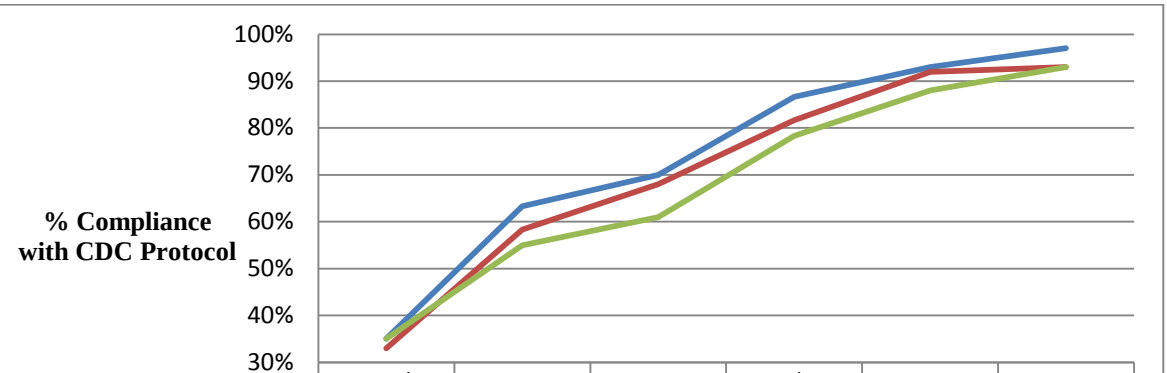
We reviewed the audit forms for completeness and accuracy and provided education to the focus facility staff as needed. In addition, the focus facilities reported the monthly audit results to the online NHSN Prevention Process Measures module (PPM). Prior to entering data into NHSN, the following online NHSN training requirements were completed by staff member reporting the audit results: CDC Infection Prevention in Dialysis Settings Continuing Education, Preventing Bloodstream Infections in Outpatient Hemodialysis Patients: Best Practices for Dialysis Staff and the NHSN Dialysis Event (DE) Surveillance Training. We tracked completion of all audit forms and data submission to the NHSN online portal throughout the project. We provided educational support whenever a facility demonstrated challenges completing the minimum audit requirements and helped the facility manager(s) identify barriers and develop strategies to address barriers.

Evaluation and Results–

Goal #1 - By the end of the 3rd quarter 2015, 100% of the QIA facilities will complete the minimum number of observations for the specified audits.

[3] Patel, P. Preventing Bloodstream Infections in Dialysis Patients. Medscape. Aug 12, 2013

Figure 1: Focus Facilities' Compliance with CDC Protocols, April – September 2015



	April	May	June	July	Aug	Sept
Hand Hygiene	35%	63%	70%	87%	93%	97%
Catheter Connection/ Disconnection	33%	58%	68%	82%	92%	93%
AVG/AVF Cannulation	35%	55%	61%	78%	88%	93%

Population Health Innovation Pilot Project: Increasing Transplant Referrals

Background: Kidney transplantation represents an optimal treatment for most ESRD patients. However, according to a USRDS report, only 17,305 kidney transplants were performed in the United States in 2012.{REF} QIRN4 is committed to providing patients with information to ensure that they are aware of their treatment choices, specifically kidney transplant.

Targeted Population: We randomly selected 18 facilities with a total of 951 patients, accounting for at least 5% of dialysis facilities and 4% of the ESRD patient population. We determined the focus facilities' baseline kidney transplant referral rates and identified the kidney transplant referral disparity, confirming an overall kidney transplant referral rate of less than 50%, as well as a consistent gender disparity of 7.6 percentage points (female referral rate of 32.3% vs male referral rate of 39.9%). We developed a plan to support all 18 focus facilities to increase kidney transplant referrals while reducing the inequality of kidney transplant referrals in the disparate group.

Implementation: To embrace this opportunity for improvement in kidney transplant referrals for patients in Network 4, we planned a multi-pronged approach that included comparative feedback reports, analysis of kidney transplant referral processes and development of kidney transplantation educational materials geared to the female dialysis patient. We designed this project by incorporating CMS' Six Innovative Project Attributes:

Rapid Cycle Improvement in Quality Improvement Activities and Outputs We developed a letter of introduction for the focus facilities that explained the project and aim. We collected and analyzed monthly kidney transplant referral rates from the focus facilities and drilled down on the referral barriers for female patients.

Customer Focus and Value of the Quality Improvement Activities to Patients, Participants and CMS In addition to working with the focus facilities to develop individualized process improvement strategies, we consulted the Medical Review Board Transplant Committee, which included a patient representative, throughout the development and implementation of the project. The facility Medical Director plays a major role in the success of transplant referral; therefore, we provided resources through our newsletters, website, and emails to Medical Directors to help reduce preconceived biases against referring female patients for kidney transplant. We encouraged each of the focus facilities to recruit a patient representative (preferably one who has been through the kidney transplant referral process) to be the Patient Champion to empower and support other patients through the referral process.

Ability to Prepare the Field to Sustain the Improvement We engaged leadership in the focus facilities to support system changes and encouraged facility staff members to be included in process improvement and decision-making. Through sharing of best practices, we developed a standardized approach for facilities to hardwire their process for the kidney transplant referral to equally include female patients. We promoted accurate facility record keeping to document transplant referral activity for the female population and provided unit-specific feedback reports to facilities for internal monitoring of their processes. We utilized our website and newsletters as vehicles for providing educational tools and resources.

Value Placed on Innovation We encouraged focus facilities to identify a facility Transplant Navigator who would ensure the evaluation and documentation of all patients at their facility for kidney transplant as a treatment modality. We engaged patients by sharing patient transplant testimonials via the Network website. We developed and deployed two resource kits: "*Are You Kidney Me*" and "*Take the First Step*" to focus on engaging the female patients.

The "*Are You Kidney Me*" toolkit included the following:

- *Are you "Kidney" Me? Poster* – We asked focus facilities to hang this poster in a prominent area for patients to see

- *Transplant Referral Process for Women Flow Chart* – This flow chart provides steps to assist in the kidney referral process for women. If during the kidney referral process a female patient was not quite ready to say "yes" to a kidney transplant referral, facility staff were directed to encourage the patient to agree to receive a call from the transplant center(s) of their choice.

- *Green Ribbons* – The color green represents kidney transplant awareness. We suggested tying a ribbon around the female patient's wrist/finger as a reminder of the kidney transplant option.

- *Quality Insights Renal Network 4 Transplant Center List* – We asked the facilities to provide this list to all patients during the kidney referral process as they discuss the transplant option, and post a copy of the list in the facility's waiting area

- *Patient Testimonial* – We asked the facility to share the patient testimony with all females during the kidney referral process whether or not the patient consented to referral.

- *Articles* – We shared articles about the kidney transplant gender disparity

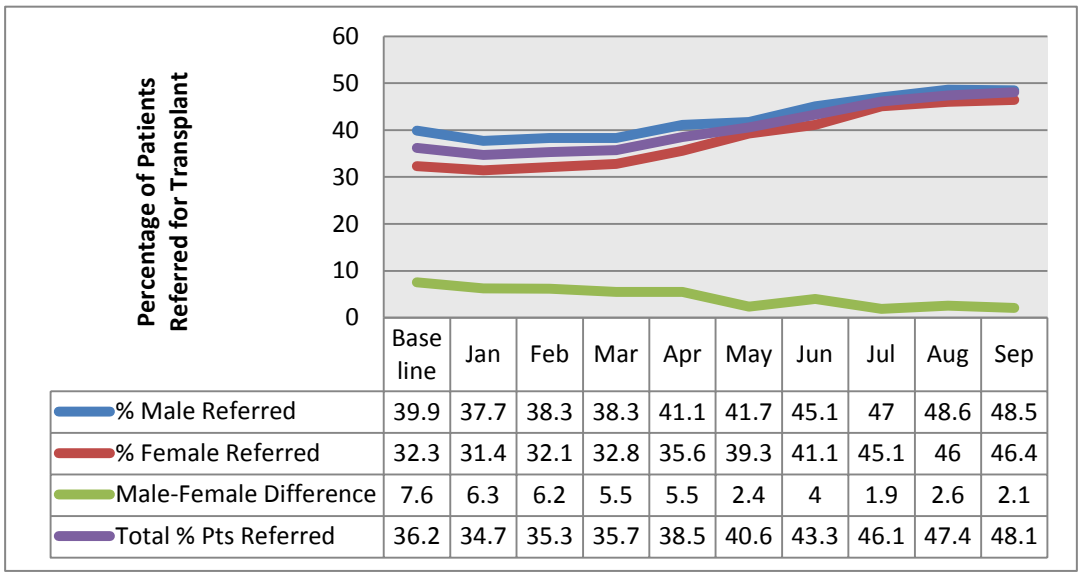
Commitment to Boundarilessness We reached outside of the Network 4 service area to support the "Explore Transplant" program (www.exploretransplant.org) through promoting the program's seminars and toolkit. We continued outreach to other ESRD Networks throughout the country working on increasing kidney transplant referrals and shared analytic findings and possible "best practice" approaches. We collaborated with kidney transplant centers in Pennsylvania and Delaware for feedback and kidney transplant referral best practices that we could share with participating dialysis units. We continued to work with providers, and stakeholders in Pennsylvania and Delaware: transplant centers, Western PA Kidney Support Groups, Central PA Kidney Foundation, Gift of Life, and the National Kidney Foundation.

Unconditional Teamwork We collaborated with West Virginia Medical Institute, our sister Networks (Network 3 and Network 5) and our state QIN-QIO to share ideas and best practices on improving transplant referral rates for women. We continued to meet with the Transplant Medical Review Board (MRB) Committee to work on strategies to improve transplant referral rates.

Innovation Project Outcome:

At the conclusion of the QIRN4 Population Health Innovative Pilot Project, focus facilities had improved from 36.2% to 48.1% of their patients having been referred for transplant. The disparity baseline of 7.6 percentage points decreased to 2.1 percentage points, a 5.5 percentage point reduction; exceeding the 1 percentage point CMS goal. Although it cannot be conclusively proven that this project led to more females receiving transplants, it is interesting to note that Table 6 of this report shows that 432 females (39.4% of 1,094 recipients) received a transplant in 2015, compared to only 348 (36% of 967 recipients) in 2014.

Figure 4: 2015 Focus Facilities Aggregated Transplant Referral Rates



	Base line	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
% Male Referred	39.9	37.7	38.3	38.3	41.1	41.7	45.1	47	48.6	48.5
% Female Referred	32.3	31.4	32.1	32.8	35.6	39.3	41.1	45.1	46	46.4
Male-Female Difference	7.6	6.3	6.2	5.5	5.5	2.4	4	1.9	2.6	2.1
Total % Pts Referred	36.2	34.7	35.3	35.7	38.5	40.6	43.3	46.1	47.4	48.1

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.

Recommendations for Sanctions

QIRN4 did not recommend sanctions for any facilities in 2015.

Recommendations to CMS for Additional Services or Facilities

QIRN4 did not recommend any additional services or facilities in 2015. 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 2015, the Network responded to 202 grievances. Of these, four (1.9%) involved issues related to access to care.

Table D. Grievance Data for Calendar Year 2015

Category	Number
Number of Grievance Cases Opened in Calendar Year 2015	202
Number of Grievance Cases Involving Access to Care	4
Number of Grievance Cases Involving Involuntary Transfer	0
Number of Grievance Cases Involving Involuntary Discharge	2
Number of Grievance Cases Involving Failure to Place	2
Number of Non-Grievance Cases Involving Access to Care	41
Number of Non-Grievance Access to Care Cases Involving Involuntary Transfer	0
Number of Non-Grievance Access to Care Cases Involving Involuntary Discharge	38
Number of Non-Grievance Access to Care Cases Involving Failure to Place	3
Total Number of Grievance and Non-Grievance Cases Involving Access to Care	9
Number of Grievance Cases Closed by the Network in Calendar Year 2015	198
Number of Non-Grievance Access to Care Cases Closed by the Network in Calendar Year 2015	4

Source of data: Patient Contact Utility

Grievance Cases Referred to State Survey Agencies

QIRN4 referred 4 cases to the Pennsylvania State Survey Agency in 2015.

One referral was for the facility's physical environment, involving a patient's displeasure with the temperature at the facility and the failure of facility staff to listen to patient complaints and address the issue. The other three referrals were for quality of care issues, involving lack of cleanliness of a facility, odors at a facility and insufficient staffing.

EMERGENCY PREPAREDNESS AND RESPONSE

The city of Philadelphia, Pennsylvania, had the privilege of hosting the 2015 Papal visit and World Meeting of Families the week of September 21, 2015–September 27, 2015. There were many stakeholders (Federal Emergency Management Agency [FEMA], Kidney Community Emergency Response [KCER], Philadelphia OEM, Networks 3 and 4, Fresenius, DaVita, DCI, US Renal, Renal Care Partners, Belmont Court, Reliant, Philadelphia and Camden, NJ, hospitals) involved in the planning for this event due to its size. Of the 2 million pilgrims anticipated to attend the event, experts believed that up to 350,000 pilgrims might walk from New Jersey to Philadelphia in order to participate in festivities throughout the week.

One of the luxuries offered by this event was the long planning period. The active planning for the dialysis facilities began in July 2015. All stakeholders joined weekly calls that transitioned to daily calls the week of September 21. All facilities participated in the planning and coordination of transporting patients to alternate facilities where necessary and the adjustment of treatment schedules at the facilities that remained open during the weekend of September 26–27, 2015.

There were 14 dialysis facilities located in or within close proximity of the Pope Francis Festival Grounds and other secure perimeters outlined by the security zone. Emergency preparedness agencies planned to restrict movement in this security zone during the Pope's visit, which would prevent patients from getting to treatment. We conducted extensive planning to ensure all patients had minimal disruption to their treatment schedules and received medically sound treatment. Providers sent letters to patients and staff notifying them of changes to their schedules.

At COB on Friday September 25, clinic managers emailed the Philadelphia Office of Emergency Management (OEM) and reported that they had closed for the day as well as the number of patients who missed treatments and might require rescheduling at a clinic outside the closed area on Saturday September 26. The facilities within the security zone that modified their treatment schedules to accommodate their 202 patients earlier in the week remained closed both Saturday September 26 and Sunday September 27. The facilities closest to and outside the security zone remained open over the weekend and provided treatment to all patients who were unable to adjust their treatment schedule. As a result of this teamwork across the various corporate lines, all 600 dialysis patients in Philadelphia received their dialysis treatments with no disruption to service.

Communication during the event was scheduled in advance in order to ensure continuity of information exchange. Three conference calls (Friday 3 PM, Sunday at 10 PM and Monday at 3 AM) occurred during the weekend of the Papal visit to keep all stakeholders informed of operations and traffic conditions.

Philadelphia OEM coordinated all incoming calls for assistance for dialysis treatment. (There was only one such call. OEM took a call regarding a patient who was camping in the New Jersey Pine Barrens and needed transportation to Jefferson Hospital in Philadelphia for a kidney transplant. OEM helped coordinate the safe transport of this patient to the hospital where the patient underwent a successful transplant.)

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Network 4

Created: September 29, 2016

Table 1. Incident (New) ESRD Patients in Network 4's Service Area, by Patient Characteristics

January 1, 2015 - December 31, 2015

Network 4's Service Area	Pennsylvania	Delaware	Other	Network	Percent
Age Group					
<= 4 Years	5	2	0	7	0.1%
5-9 Years	4	0	3	7	0.1%
10-14 Years	6	0	4	10	0.2%
15-19 Years	17	3	6	26	0.5%
20-24 Years	36	4	2	42	0.8%
25-29 Years	67	5	5	77	1.5%
30-34 Years	86	8	7	101	2.0%
35-39 Years	89	9	4	102	2.0%
40-44 Years	160	16	7	183	3.6%
45-49 Years	248	22	15	285	5.6%
50-54 Years	339	24	18	381	7.4%
55-59 Years	509	34	29	572	11.2%
60-64 Years	545	39	25	609	11.9%
65-69 Years	621	33	24	678	13.2%
70-74 Years	594	42	17	653	12.8%
75-79 Years	527	40	23	590	11.5%
80-84 Years	410	25	22	457	8.9%
>= 85 Years	328	9	4	341	6.7%
Total	4591	315	215	5121	100.0%
Median Age	66	64	61	66	
Gender					
Female	1883	127	86	2096	40.9%
Male	2708	188	129	3025	59.1%
Total	4591	315	215	5121	100.0%
Ethnicity*					
Hispanic or Latino	195	15	9	219	4.3%
Not Hispanic or Latino	4388	300	205	4893	95.5%
Not Specified	8	0	1	9	0.2%
Total	4591	315	215	5121	100.0%

Network 4's Service Area	Pennsylvania	Delaware	Other	Network	Percent
Race*					
American Indian/Alaska Native	1	0	1	2	0.0%
Asian	87	9	3	99	1.9%
Black or African American	1069	122	39	1230	24.0%
Native Hawaiian or Other Pacific Islander	11	1	1	13	0.3%
White	3411	183	170	3764	73.5%
More Than One Race Reported	4	0	0	4	0.1%
Not Specified	8	0	1	9	0.2%
Total	4591	315	215	5121	100.0%
Primary Cause of ESRD*					
Diabetes	2023	105	77	2205	43.1%
Glomerulonephritis	297	33	12	342	6.7%
Secondary Glomerulonephritis/Vasculitis	69	5	5	79	1.5%
Interstitial Nephritis/Pyelonephritis	127	10	7	144	2.8%
Transplant Complications	14	0	2	16	0.3%
Hypertension/Large Vessel Disease	1238	69	46	1353	26.4%
Cystic/Hereditary/Congenital/Other Diseases	149	14	15	178	3.5%
Neoplasms/Tumors	120	9	6	135	2.6%
Disorders of Mineral Metabolism	1	0	0	1	0.0%
Genitourinary System	8	0	0	8	0.2%
Acute Kidney Failure	37	3	2	42	0.8%
Miscellaneous Conditions	391	23	21	435	8.5%
Not Specified	117	44	22	183	3.6%
Total	4591	315	215	5121	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: September 29, 2016	
Table 2. Prevalent Dialysis Patients in Network 4's Service Area, by Patient Characteristics					
As of December 31, 2015					
Network 4's Service Area	**Pennsylvania**	**Delaware**	**Other**	**Network**	**Percent**
Age Group					
<= 4 Years	11	3	4	18	0.1%
5-9 Years	4	2	4	10	0.1%
10-14 Years	5	2	4	11	0.1%
15-19 Years	28	4	5	37	0.2%
20-24 Years	106	10	5	121	0.6%
25-29 Years	229	21	13	263	1.4%
30-34 Years	337	35	11	383	2.0%
35-39 Years	465	48	10	523	2.7%
40-44 Years	693	68	26	787	4.1%
45-49 Years	1098	107	38	1243	6.4%
50-54 Years	1463	163	40	1666	8.6%
55-59 Years	2027	178	38	2243	11.6%
60-64 Years	2294	199	52	2545	13.2%
65-69 Years	2479	247	58	2784	14.4%
70-74 Years	1940	173	42	2155	11.1%
75-79 Years	1742	165	29	1936	10.0%
80-84 Years	1316	114	29	1459	7.5%
>= 85 Years	1063	76	15	1154	6.0%
Total	17300	1615	423	19338	100.0%
Median Age	64	64	61	64	
Gender					
Female	7177	652	176	8005	41.4%
Male	10123	963	247	11333	58.6%
Total	17300	1615	423	19338	100.0%
Ethnicity*					
Hispanic or Latino	856	58	36	950	4.9%
Not Hispanic or Latino	16439	1557	387	18383	95.1%
Not Specified	5	0	0	5	0.0%
Total	17300	1615	423	19338	100.0%

Network 4's Service Area	Pennsylvania	Delaware	Other	Network	Percent
Race*					
American Indian/Alaska Native	7	2	3	12	0.1%
Asian	256	22	8	286	1.5%
Black or African American	5777	842	108	6727	34.8%
Native Hawaiian or Other Pacific Islander	60	4	0	64	0.3%
White	11176	745	302	12223	63.2%
More Than One Race Reported	21	0	2	23	0.1%
Not Specified	3	0	0	3	0.0%
Total	17300	1615	423	19338	100.0%
Primary Cause of ESRD*					
Diabetes	7292	611	167	8070	41.7%
Glomerulonephritis	1438	192	39	1669	8.6%
Secondary Glomerulonephritis/Vasculitis	357	41	18	416	2.2%
Interstitial Nephritis/Pyelonephritis	517	49	8	574	3.0%
Transplant Complications	15	0	0	15	0.1%
Hypertension/Large Vessel Disease	4765	372	105	5242	27.1%
Cystic/Hereditary/Congenital/Other Diseases	642	61	27	730	3.8%
Neoplasms/Tumors	831	58	20	909	4.7%
Disorders of Mineral Metabolism	1	0	0	1	0.0%
Genitourinary System	7	0	0	7	0.0%
Acute Kidney Failure	33	2	2	37	0.2%
Miscellaneous Conditions	1224	117	33	1374	7.1%
Not Specified	178	112	4	294	1.5%
Total	17300	1615	423	19338	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: September 29,2016

Table 3: In-Home Dialysis Patients In Network 4's Service Area, by Dialysis Facility and Modality

As of December 31, 2015

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
080001	0	0	0	0	0	0
080004	0	0	0	0	0	1
08002F	0	0	0	0	0	35
082501	0	0	0	0	0	61
082502	0	0	0	0	0	99
082503	0	1	0	0	1	75
082505	1	3	21	0	25	120
082506	0	0	0	0	0	80
082507	5	3	20	0	28	120
082508	1	0	5	0	6	38
082509	0	0	0	0	0	101
082510	0	0	0	0	0	43
082511	0	0	0	0	0	63
082512	0	0	0	0	0	68
082513	0	0	0	0	0	69
082514	0	0	0	0	0	47
082515	1	2	22	0	25	100
082516	0	0	0	0	0	69
082517	0	1	15	0	16	81
082518	0	1	15	0	16	76
082519	0	0	0	0	0	55
082520	21	15	59	0	95	96
082521	0	0	0	0	0	55
082522	0	6	2	0	8	56
082523	0	1	0	0	1	7
082524	0	0	0	0	0	16
083300	0	0	8	0	8	12
083300	0	0	0	0	0	0
DE Total	29	33	167	0	229	1660
390006	0	0	0	0	0	0
390006	0	3	21	0	24	25
390027	0	0	0	0	0	0
390046	13	0	15	0	28	187
390050	0	0	0	0	0	0
39005F	0	0	0	0	0	47

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
390067	0	0	0	0	0	0
390111	0	0	0	0	0	0
39012F	0	0	0	0	0	0
39012F	3	0	9	0	12	39
390133	0	0	0	0	0	0
39013F	0	0	0	0	0	14
390142	0	0	0	0	0	0
390142	0	18	4	0	22	23
390164	0	0	0	0	0	0
390164	0	0	0	0	0	11
390174	0	0	0	0	0	0
390180	0	0	0	0	0	0
390195	0	0	0	0	0	0
390256	0	0	0	0	0	0
390256	0	0	21	0	21	62
390290	0	0	0	0	0	0
390327	0	0	6	0	6	95
392501	0	0	0	0	0	112
392502	0	1	1	0	2	65
392505	0	0	0	0	0	115
392506	1	0	1	0	2	40
392507	3	0	0	0	3	74
392508	0	0	0	0	0	136
392509	0	0	0	0	0	113
392511	9	4	19	0	32	132
392512	2	0	10	0	12	138
392513	0	0	0	0	0	68
392515	0	3	6	0	9	89
392516	0	0	0	0	0	27
392517	0	0	0	0	0	79
392518	0	6	4	0	10	88
392520	0	0	0	0	0	50
392521	0	0	0	0	0	159
392522	0	3	18	0	21	129
392523	0	0	8	0	8	60
392524	0	0	0	0	0	28
392528	0	0	0	0	0	122
392530	0	0	0	0	0	105
392531	0	0	0	0	0	119
392532	0	2	8	0	10	65

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
392533	0	0	0	0	0	90
392534	3	0	7	0	10	58
392535	0	0	3	0	3	58
392536	0	0	0	0	0	101
392537	2	2	7	0	11	88
392538	0	0	0	0	0	132
392539	0	0	13	0	13	132
392540	0	0	0	0	0	0
392541	0	0	0	0	0	0
392542	0	0	0	0	0	62
392543	0	0	0	0	0	120
392544	0	0	0	0	0	43
392545	0	0	0	0	0	31
392546	0	0	6	0	6	91
392547	0	2	6	0	8	63
392548	0	11	3	0	14	137
392549	0	6	24	0	30	202
392551	0	0	0	0	0	76
392552	1	0	8	0	9	70
392553	0	1	17	0	18	111
392554	0	0	0	0	0	66
392555	0	0	0	0	0	62
392556	0	0	0	0	0	81
392557	0	2	8	0	10	100
392559	0	0	0	0	0	65
392560	1	1	11	1	14	84
392561	0	0	0	0	0	59
392562	0	0	0	0	0	90
392563	0	0	0	0	0	38
392565	0	0	0	0	0	59
392567	0	0	5	0	5	68
392568	0	0	0	0	0	88
392569	0	0	0	0	0	133
392572	0	0	0	0	0	15
392573	0	1	6	0	7	56
392574	0	0	6	0	6	65
392575	1	0	5	0	6	65
392576	0	0	6	0	6	33
392577	0	0	0	0	0	37
392578	0	0	0	0	0	26

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
392579	0	0	0	0	0	47
392580	0	0	0	0	0	28
392581	0	1	3	0	4	77
392582	0	0	0	0	0	41
392584	4	1	4	0	9	48
392586	0	0	2	0	2	54
392587	0	3	9	0	12	161
392588	0	0	4	0	4	50
392590	0	0	0	0	0	44
392592	0	3	6	0	9	58
392594	0	1	6	0	7	109
392595	2	1	3	0	6	56
392597	0	0	2	0	2	29
392598	0	1	2	0	3	101
392600	0	0	3	0	3	34
392601	0	0	0	0	0	72
392602	0	0	3	0	3	39
392603	5	0	0	0	5	125
392604	0	0	0	0	0	37
392605	0	1	6	0	7	108
392606	0	0	0	0	0	64
392609	0	0	0	0	0	90
392610	7	3	30	0	40	111
392612	0	1	5	0	6	51
392613	0	0	0	0	0	58
392614	7	8	28	0	43	122
392616	4	0	5	0	9	60
392617	0	0	0	0	0	57
392618	0	0	0	0	0	30
392619	0	1	24	0	25	117
392620	1	2	1	0	4	38
392621	0	0	0	0	0	51
392622	0	0	0	0	0	21
392623	0	0	2	0	2	39
392626	0	0	0	0	0	28
392627	0	0	2	0	2	24
392628	7	4	13	0	24	73
392629	0	0	0	0	0	60
392630	2	6	19	0	27	70
392631	0	0	0	0	0	81

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
392632	0	0	0	0	0	47
392633	0	3	11	0	14	108
392634	0	4	10	0	14	53
392635	0	0	0	0	0	110
392636	0	1	5	0	6	44
392637	0	0	0	0	0	18
392638	0	0	0	0	0	45
392639	0	0	0	0	0	34
392640	0	0	0	0	0	76
392641	0	3	1	0	4	40
392642	0	0	0	0	0	13
392644	0	0	0	0	0	30
392646	0	0	1	0	1	39
392647	0	1	6	0	7	66
392648	0	1	7	0	8	51
392649	1	0	6	0	7	81
392650	0	0	0	0	0	21
392651	0	0	2	0	2	55
392653	0	0	0	0	0	53
392656	0	1	1	0	2	59
392657	0	0	4	0	4	48
392658	3	1	10	0	14	181
392659	5	2	13	0	20	59
392660	1	0	0	0	1	22
392662	0	0	0	0	0	75
392663	0	0	0	0	0	86
392664	0	0	0	0	0	112
392665	0	0	0	0	0	55
392666	0	0	5	0	5	42
392669	0	0	0	0	0	23
392670	0	0	0	0	0	60
392671	0	0	0	0	0	60
392672	0	0	0	0	0	61
392674	0	0	1	0	1	45
392676	0	0	3	0	3	38
392677	0	0	8	0	8	73
392678	0	0	0	0	0	46
392680	0	0	0	0	0	9
392681	2	1	0	0	3	38
392682	0	0	0	0	0	76

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
392683	0	1	1	0	2	63
392684	0	22	8	0	30	122
392685	0	1	4	0	5	45
392686	0	0	4	0	4	37
392687	1	2	10	0	13	104
392688	0	0	0	0	0	52
392689	0	0	0	0	0	54
392690	0	0	0	0	0	18
392691	0	0	10	0	10	70
392692	3	1	4	0	8	33
392694	0	0	0	0	0	49
392695	0	0	1	0	1	19
392697	0	0	0	0	0	0
392698	0	0	2	0	2	22
392699	0	0	0	0	0	51
392700	0	0	0	0	0	46
392701	0	0	0	0	0	40
392702	0	3	11	0	14	98
392704	0	0	0	0	0	46
392705	0	0	0	0	0	53
392706	0	0	0	0	0	72
392707	0	1	2	0	3	93
392708	3	3	5	0	11	36
392710	3	0	0	0	3	37
392711	0	4	11	0	15	86
392713	0	2	8	0	10	73
392714	1	0	1	0	2	83
392715	0	0	1	0	1	55
392716	0	0	0	0	0	59
392717	0	2	13	0	15	64
392718	0	0	0	0	0	72
392719	0	0	0	0	0	28
392720	1	0	7	0	8	70
392721	0	0	0	0	0	70
392723	1	0	27	0	28	90
392724	0	0	0	0	0	43
392725	0	0	0	0	0	39
392726	0	0	0	0	0	36
392727	0	1	5	0	6	83
392729	0	0	0	0	0	50

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
392731	0	1	11	0	12	113
392732	0	0	0	0	0	10
392733	0	0	0	0	0	87
392734	0	2	8	0	10	43
392735	0	0	3	0	3	62
392736	0	0	8	0	8	105
392738	0	0	0	0	0	36
392739	0	8	21	0	29	108
392740	1	0	1	0	2	23
392741	5	4	8	0	17	104
392742	0	0	3	0	3	93
392743	1	0	7	0	8	72
392746	2	1	3	0	6	71
392747	0	0	3	0	3	41
392748	0	0	1	0	1	84
392749	0	0	0	0	0	70
392750	0	0	12	0	12	39
392751	0	0	0	0	0	99
392752	3	3	8	0	14	76
392753	0	0	0	0	0	98
392754	0	0	0	0	0	11
392755	5	6	21	0	32	68
392756	30	1	26	0	57	57
392759	0	0	0	0	0	45
392761	0	0	0	0	0	35
392763	0	4	0	0	4	53
392764	0	0	0	0	0	43
392765	0	0	1	0	1	50
392766	0	0	6	0	6	101
392767	0	0	0	0	0	39
392768	0	0	3	0	3	44
392769	3	0	7	0	10	101
392770	0	0	0	0	0	33
392771	0	0	0	0	0	31
392772	9	0	14	0	23	23
392773	0	2	9	0	11	87
392775	2	0	15	0	17	17
392776	0	1	8	0	9	44
392777	0	3	6	0	9	87
392778	0	1	3	0	4	35

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
392779	0	0	5	0	5	45
392780	0	0	0	0	0	18
392781	0	0	4	0	4	97
392782	2	0	6	0	8	48
392783	0	2	3	0	5	42
392784	0	0	3	0	3	33
392785	31	11	54	1	97	153
392786	0	2	8	0	10	76
392787	13	7	42	0	62	112
392788	0	1	3	0	4	58
392789	1	1	7	0	9	30
392790	0	3	10	0	13	59
392791	0	7	16	0	23	134
392792	0	0	0	0	0	71
392794	0	0	0	0	0	23
392796	25	4	76	0	105	105
392797	11	0	7	0	18	88
392798	0	0	1	0	1	66
392800	0	3	8	0	11	33
392801	0	0	2	0	2	23
392802	0	2	4	0	6	72
392803	0	0	37	0	37	202
392804	5	5	11	0	21	21
392805	2	0	4	0	6	34
392806	0	1	7	0	8	48
392807	0	1	0	0	1	51
392808	0	0	0	0	0	8
392809	0	0	0	0	0	37
392810	0	0	3	0	3	82
392811	4	5	28	0	37	37
392813	8	1	19	0	28	28
392814	0	0	0	0	0	13
392815	0	0	0	0	0	30
392816	0	21	3	0	24	24
392817	0	2	10	0	12	150
392818	0	0	0	0	0	24
392819	0	0	0	0	0	7
392820	0	0	0	0	0	30
392821	0	0	0	0	0	30
392822	0	0	0	0	0	39

Facility CCN	HD	CAPD	CCPD	Other Modalities	Total In-Home Patients	Total In-Center and In-Home Patients
392823	0	0	0	0	0	63
392825	0	0	0	0	0	16
392826	0	0	0	0	0	52
392827	0	0	0	0	0	35
392828	0	0	3	0	3	29
392830	0	1	1	0	2	14
392832	10	0	0	0	10	14
392833	0	0	0	0	0	6
392834	1	0	1	0	2	5
392835	0	0	0	0	0	4
392836	0	0	0	0	0	1
392837	0	0	0	0	0	2
392838	0	0	0	0	0	0
392839	0	0	0	0	0	0
392844	0	5	7	0	12	64
393302	0	0	0	0	0	0
393302	0	0	1	0	1	4
393303	0	0	12	0	12	25
393303	0	0	0	0	0	0
393307	0	0	3	0	3	11
393515	0	0	0	0	0	17
393518	0	0	0	0	0	68
PA Total	277	286	1328	2	1893	17796
Network Total	306	319	1495	2	2122	19456
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			Created: September 29,2016	
Table 4. In-Center Dialysis Patients in Network 4's Service Area, by Dialysis Facility and Modality				
As of December 31, 2015				
Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
080001	17	0	17	17
080001	0	0	0	0
080004	1	0	1	1
08002F	35	0	35	35
082501	61	0	61	61
082502	99	0	99	99
082503	74	0	74	75
082505	95	0	95	120
082506	80	0	80	80
082507	92	0	92	120
082508	32	0	32	38
082509	101	0	101	101
082510	43	0	43	43
082511	63	0	63	63
082512	68	0	68	68
082513	69	0	69	69
082514	47	0	47	47
082515	75	0	75	100
082516	69	0	69	69
082517	65	0	65	81
082518	60	0	60	76
082519	55	0	55	55
082520	1	0	1	96
082521	55	0	55	55
082522	47	1	48	56
082523	6	0	6	7
082524	16	0	16	16
083300	4	0	4	12
083300	0	0	0	0
DE Total	1430	1	1431	1660
390006	0	0	0	0
390006	1	0	1	25
390027	0	0	0	0
390046	159	0	159	187
390050	0	0	0	0
39005F	47	0	47	47
390067	0	0	0	0
390111	0	0	0	0
39012F	0	0	0	0
39012F	27	0	27	39
390133	0	0	0	0
39013F	13	1	14	14
390142	0	0	0	0
390142	1	0	1	23
390164	0	0	0	0

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
390164	11	0	11	11
390174	0	0	0	0
390180	0	0	0	0
390195	0	0	0	0
390256	0	0	0	0
390256	41	0	41	62
390290	0	0	0	0
390327	89	0	89	95
392501	112	0	112	112
392502	63	0	63	65
392505	115	0	115	115
392506	38	0	38	40
392507	71	0	71	74
392508	136	0	136	136
392509	113	0	113	113
392511	100	0	100	132
392512	126	0	126	138
392513	68	0	68	68
392515	80	0	80	89
392516	27	0	27	27
392517	79	0	79	79
392518	78	0	78	88
392520	50	0	50	50
392521	159	0	159	159
392522	107	1	108	129
392523	52	0	52	60
392524	28	0	28	28
392528	122	0	122	122
392530	105	0	105	105
392531	119	0	119	119
392532	55	0	55	65
392533	90	0	90	90
392534	48	0	48	58
392535	55	0	55	58
392536	101	0	101	101
392537	77	0	77	88
392538	132	0	132	132
392539	119	0	119	132
392540	0	0	0	0
392541	0	0	0	0
392542	62	0	62	62
392543	120	0	120	120
392544	43	0	43	43
392545	31	0	31	31
392546	85	0	85	91
392547	55	0	55	63
392548	123	0	123	137
392549	172	0	172	202

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
392551	76	0	76	76
392552	61	0	61	70
392553	93	0	93	111
392554	66	0	66	66
392555	62	0	62	62
392556	81	0	81	81
392557	90	0	90	100
392559	65	0	65	65
392560	70	0	70	84
392561	59	0	59	59
392562	90	0	90	90
392563	38	0	38	38
392565	59	0	59	59
392567	63	0	63	68
392568	88	0	88	88
392569	133	0	133	133
392572	15	0	15	15
392573	49	0	49	56
392574	59	0	59	65
392575	59	0	59	65
392576	27	0	27	33
392577	37	0	37	37
392578	26	0	26	26
392579	47	0	47	47
392580	28	0	28	28
392581	73	0	73	77
392582	41	0	41	41
392584	39	0	39	48
392586	52	0	52	54
392587	149	0	149	161
392588	46	0	46	50
392590	44	0	44	44
392592	49	0	49	58
392594	102	0	102	109
392595	50	0	50	56
392597	27	0	27	29
392598	98	0	98	101
392600	31	0	31	34
392601	72	0	72	72
392602	36	0	36	39
392603	120	0	120	125
392604	37	0	37	37
392605	101	0	101	108
392606	64	0	64	64
392609	90	0	90	90
392610	71	0	71	111
392612	45	0	45	51
392613	58	0	58	58

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
392614	79	0	79	122
392616	51	0	51	60
392617	57	0	57	57
392618	30	0	30	30
392619	92	0	92	117
392620	34	0	34	38
392621	51	0	51	51
392622	21	0	21	21
392623	37	0	37	39
392626	28	0	28	28
392627	22	0	22	24
392628	49	0	49	73
392629	60	0	60	60
392630	43	0	43	70
392631	81	0	81	81
392632	47	0	47	47
392633	94	0	94	108
392634	39	0	39	53
392635	110	0	110	110
392636	38	0	38	44
392637	18	0	18	18
392638	45	0	45	45
392639	34	0	34	34
392640	76	0	76	76
392641	36	0	36	40
392642	13	0	13	13
392644	30	0	30	30
392646	38	0	38	39
392647	59	0	59	66
392648	43	0	43	51
392649	74	0	74	81
392650	21	0	21	21
392651	53	0	53	55
392653	53	0	53	53
392656	57	0	57	59
392657	44	0	44	48
392658	167	0	167	181
392659	39	0	39	59
392660	21	0	21	22
392662	75	0	75	75
392663	86	0	86	86
392664	112	0	112	112
392665	55	0	55	55
392666	37	0	37	42
392669	23	0	23	23
392670	60	0	60	60
392671	60	0	60	60
392672	61	0	61	61

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
392674	44	0	44	45
392676	35	0	35	38
392677	65	0	65	73
392678	46	0	46	46
392680	9	0	9	9
392681	35	0	35	38
392682	76	0	76	76
392683	61	0	61	63
392684	92	0	92	122
392685	40	0	40	45
392686	33	0	33	37
392687	91	0	91	104
392688	52	0	52	52
392689	54	0	54	54
392690	18	0	18	18
392691	60	0	60	70
392692	25	0	25	33
392694	49	0	49	49
392695	18	0	18	19
392697	0	0	0	0
392698	20	0	20	22
392699	51	0	51	51
392700	46	0	46	46
392701	40	0	40	40
392702	84	0	84	98
392704	46	0	46	46
392705	53	0	53	53
392706	72	0	72	72
392707	90	0	90	93
392708	25	0	25	36
392710	34	0	34	37
392711	71	0	71	86
392713	63	0	63	73
392714	81	0	81	83
392715	54	0	54	55
392716	59	0	59	59
392717	49	0	49	64
392718	72	0	72	72
392719	28	0	28	28
392720	62	0	62	70
392721	70	0	70	70
392723	62	0	62	90
392724	43	0	43	43
392725	39	0	39	39
392726	36	0	36	36
392727	77	0	77	83
392729	50	0	50	50
392731	101	0	101	113

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
392732	10	0	10	10
392733	87	0	87	87
392734	33	0	33	43
392735	59	0	59	62
392736	97	0	97	105
392738	36	0	36	36
392739	79	0	79	108
392740	21	0	21	23
392741	87	0	87	104
392742	90	0	90	93
392743	64	0	64	72
392746	65	0	65	71
392747	38	0	38	41
392748	83	0	83	84
392749	70	0	70	70
392750	27	0	27	39
392751	99	0	99	99
392752	62	0	62	76
392753	98	0	98	98
392754	11	0	11	11
392755	36	0	36	68
392756	0	0	0	57
392759	45	0	45	45
392761	35	0	35	35
392763	49	0	49	53
392764	43	0	43	43
392765	49	0	49	50
392766	95	0	95	101
392767	39	0	39	39
392768	41	0	41	44
392769	91	0	91	101
392770	33	0	33	33
392771	31	0	31	31
392772	0	0	0	23
392773	76	0	76	87
392775	0	0	0	17
392776	35	0	35	44
392777	78	0	78	87
392778	31	0	31	35
392779	40	0	40	45
392780	18	0	18	18
392781	92	1	93	97
392782	40	0	40	48
392783	37	0	37	42
392784	30	0	30	33
392785	55	1	56	153
392786	66	0	66	76
392787	50	0	50	112

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
392788	53	1	54	58
392789	21	0	21	30
392790	46	0	46	59
392791	111	0	111	134
392792	71	0	71	71
392794	23	0	23	23
392796	0	0	0	105
392797	70	0	70	88
392798	65	0	65	66
392800	22	0	22	33
392801	21	0	21	23
392802	66	0	66	72
392803	165	0	165	202
392804	0	0	0	21
392805	28	0	28	34
392806	40	0	40	48
392807	50	0	50	51
392808	8	0	8	8
392809	37	0	37	37
392810	79	0	79	82
392811	0	0	0	37
392813	0	0	0	28
392814	13	0	13	13
392815	30	0	30	30
392816	0	0	0	24
392817	138	0	138	150
392818	24	0	24	24
392819	7	0	7	7
392820	30	0	30	30
392821	30	0	30	30
392822	39	0	39	39
392823	63	0	63	63
392825	16	0	16	16
392826	52	0	52	52
392827	35	0	35	35
392828	26	0	26	29
392830	12	0	12	14
392832	4	0	4	14
392833	6	0	6	6
392834	3	0	3	5
392835	4	0	4	4
392836	1	0	1	1
392837	2	0	2	2
392838	0	0	0	0
392839	0	0	0	0
392844	52	0	52	64
393302	0	0	0	0
393302	3	0	3	4

Facility CCN	HD	PD	Total In-Center Patients	Total In-Center and In-Home Patients
393303	13	0	13	25
393303	0	0	0	0
393307	8	0	8	11
393515	17	0	17	17
393518	68	0	68	68
PA Total	15898	5	15903	17796
Network Total	17328	6	17334	19456
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: September 29, 2016

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, 2015 - December 31, 2015

State	Deceased Donor	Living Related Donor	Living Unrelated Donor	Unknown Donor Type	Total Transplants Performed	Patients on Transplant Waiting List
080001	20	3	2	0	25	265
083300	3	0	0	0	3	11
DE Total	23	3	2	0	28	276
390006	18	9	13	0	40	326
390027	49	1	3	0	53	218
390050	63	26	4	0	93	330
390067	13	5	8	0	26	311
390111	145	22	39	0	206	990
39012F	44	1	4	0	49	496
390133	59	8	13	0	80	358
390142	58	2	2	0	62	904
390164	137	37	33	0	207	668
390174	77	18	10	0	105	617
390180	12	0	1	0	13	67
390195	17	1	2	0	20	128
390256	23	10	4	0	37	147
390270	0	0	0	0	0	0
390290	38	7	3	0	48	397
393302	8	6	2	0	16	11
393303	5	8	1	0	14	53
393307	0	0	0	0	0	0
PA Total	766	161	142	0	1069	6021
Network Total	789	164	144	0	1097	6297

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, 2015.

NOTE: Cumulative total for January 1, 2015 – December 31, 2015. A patient who had more than one transplant during the calendar year is represented more than once in the table.

Network 4

Created: September 29, 2016

Table 6: Renal Transplant* Recipients in Network 4's Service Area, by Patient Characteristics

January 1, 2015 - December 31, 2015

Network 4's Service Area	Pennsylvania	Delaware	Other	Network	Percent
Age Group					
<= 4 Years	5	1	2	8	0.7%
5-9 Years	7	0	5	12	1.1%
10-14 Years	3	0	4	7	0.6%
15-19 Years	12	1	6	19	1.7%
20-24 Years	23	2	4	29	2.6%
25-29 Years	36	0	16	52	4.7%
30-34 Years	44	2	22	68	6.2%
35-39 Years	64	1	11	76	6.9%
40-44 Years	71	2	20	93	8.5%
45-49 Years	76	7	21	104	9.5%
50-54 Years	81	8	38	127	11.6%
55-59 Years	118	6	35	159	14.5%
60-64 Years	103	5	45	153	14.0%
65-69 Years	74	6	30	110	10.0%
70-74 Years	39	1	14	54	4.9%
75-79 Years	20	0	3	23	2.1%
80-84 Years	2	0	0	2	0.2%
>= 85 Years	0	0	0	0	0.0%
Total	778	42	276	1096	100.0%
Median Age	52	54	53	52	
Gender					
Female	307	20	105	432	39.4%
Male	471	22	171	664	60.6%
Total	778	42	276	1096	100.0%
Ethnicity*					
Hispanic or Latino	38	3	19	60	5.5%
Not Hispanic or Latino	736	39	256	1031	94.1%
Not Specified	4	0	1	5	0.5%
Total	778	42	276	1096	100.0%
Race*					
American Indian/Alaska Native	0	0	0	0	0.0%
Asian	32	0	16	48	4.4%
Black or African American	236	21	82	339	30.9%
Native Hawaiian or Other Pacific Islander	6	0	3	9	0.8%

Network 4's Service Area	Pennsylvania	Delaware	Other	Network	Percent
White	499	21	173	693	63.2%
More Than One Race Reported	2	0	1	3	0.3%
Not Specified	3	0	1	4	0.4%
Total	778	42	276	1096	100.0%
Primary Cause of ESRD**					
Diabetes	163	14	60	237	21.6%
Glomerulonephritis	135	6	53	194	17.7%
Secondary Glomerulonephritis/Vasculitis	30	4	9	43	3.9%
Interstitial Nephritis/Pyelonephritis	30	3	9	42	3.8%
Transplant Complications	0	0	1	1	0.1%
Hypertension/Large Vessel Disease	166	2	54	222	20.3%
Cystic/Hereditary/Congenital/Other Diseases	84	4	25	113	10.3%
Neoplasms/Tumors	51	3	23	77	7.0%
Disorders of Mineral Metabolism	0	0	0	0	0.0%
Genitourinary System	1	0	0	1	0.1%
Acute Kidney Failure	0	0	0	0	0.0%
Miscellaneous Conditions	65	3	23	91	8.3%
Not Specified	53	3	19	75	6.8%
Total	778	42	276	1096	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: September 29,2016

Table 7. Deaths among Dialysis Patients in Network 4's Service Area, by Patient Characteristics

January 1, 2015 - December 31, 2015

Network 4's Service Area	Pennsylvania	Delaware	Other	Network	Percent
Age Group					
<= 4 Years	1	0	0	1	0.0%
5-9 Years	0	0	0	0	0.0%
10-14 Years	0	0	0	0	0.0%
15-19 Years	0	0	0	0	0.0%
20-24 Years	5	0	0	5	0.1%
25-29 Years	9	0	0	9	0.2%
30-34 Years	20	2	0	22	0.5%
35-39 Years	23	6	0	29	0.7%
40-44 Years	53	3	0	56	1.3%
45-49 Years	106	3	3	112	2.7%
50-54 Years	189	10	5	204	4.9%
55-59 Years	282	40	7	329	7.8%
60-64 Years	393	44	13	450	10.7%
65-69 Years	502	36	10	548	13.0%
70-74 Years	557	51	15	623	14.8%
75-79 Years	581	43	13	637	15.2%
80-84 Years	530	41	16	587	14.0%
>= 85 Years	550	28	10	588	14.0%
Total	3801	307	92	4200	100.0%
Median Age	72	71	72	72	
Gender					
Female	1596	131	42	1769	42.1%
Male	2205	176	50	2431	57.9%
Total	3801	307	92	4200	100.0%
Ethnicity*					
Hispanic or Latino	103	9	2	114	2.7%
Not Hispanic or Latino	3694	298	90	4082	97.2%
Not Specified	4	0		4	0.1%
Total	3801	307	92	4200	100.0%
Race*					
American Indian/Alaska Native	1	0	0	1	0.0%
Asian	41	5	0	46	1.1%
Black or African American	854	126	13	993	23.6%
Native Hawaiian or Other Pacific Islander	5	1	0	6	0.1%

Network 4's Service Area	Pennsylvania	Delaware	Other	Network	Percent
White	2893	175	79	3147	74.9%
More Than One Race Reported	3	0	0	3	0.1%
Not Specified	4	0		4	0.1%
Total	3801	307	92	4200	100.0%
Primary Cause of ESRD*					
Diabetes	1696	145	40	1881	44.8%
Glomerulonephritis	179	25	1	205	4.9%
Secondary Glomerulonephritis/Vasculitis	48	4	0	52	1.2%
Interstitial Nephritis/Pyelonephritis	118	8	4	130	3.1%
Transplant Complications	0	0	0	0	0.0%
Hypertension/Large Vessel Disease	1080	60	26	1166	27.8%
Cystic/Hereditary/Congenital/ Other Diseases	77	4	4	85	2.0%
Neoplasms/Tumors	181	13	2	196	4.7%
Disorders of Mineral Metabolism	0	0	0	0	0.0%
Genitourinary System	0	0	0	0	0.0%
Acute Kidney Failure	3	0	0	3	0.1%
Miscellaneous Conditions	359	31	11	401	9.5%
Not Specified	60	17	4	81	1.9%
Total	3801	307	92	4200	100.0%
Primary Cause of Death**					
Cardiac	1278	66	31	1375	32.7%
Endocrine	0	0	0	0	0.0%
Gastrointestinal	31	2	0	33	0.8%
Infection	284	18	2	304	7.2%
Liver Disease	26	1	2	29	0.7%
Metabolic	7	2	1	10	0.2%
Vascular	109	10	3	122	2.9%
Other	1007	52	19	1078	25.7%
Unknown	831	105	24	960	22.9%
Not Specified	228	51	10	289	6.9%
Total	3801	307	92	4200	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: September 29, 2016

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, 2015

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	463	1	0	78	0
PA	4537	32	24	744	39
Network Total	5000	33	24	822	39

Source of data: CROWNWeb.

Voc Rehab = Vocational Rehabilitation

Network 4

Created: September 29, 2016

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, 2015

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	2	0	0	31	24	36
School Status Not Specified	0	0	0	1	1	511
Employed Part-Time						
Attending School Full-Time	0	1	0	0	0	0
Attending School Part-Time	0	1	0	0	0	3
Not Attending School	3	0	0	8	26	11
School Status Not Specified	0	0	1	0	2	154
Employment Status Not Specified						
Attending School Full-Time	0	1	0	0	0	0
Attending School Part-Time	0	4	0	0	0	1
Not Attending School	0	0	0	0	1	1
School Status Not Specified	0	1	0	0	0	1566
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	5	1
School Status Not Specified	0	0	0	1	0	37
Retired*						
Attending School Full-Time	0	0	0	0	0	0
Attending School Part-Time	0	1	0	0	1	0
Not Attending School	8	0	2	25	171	36
School Status Not Specified	2	0	1	0	10	702
Medical Leave of Absence						
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	1	8	13
School Status Not Specified	1	0	0	0	0	134

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	0	0	0	0	0
Attending School Part-Time	0	0	0	0	0	0
Not Attending School	0	0	0	0	0	0
School Status Not Specified	0	0	0	0	0	0

Source of data: CROWNWeb.

*Retired due to preference or disability.

**Other = Employment Status of Student or Unemployed

Voc Rehab = Vocational Rehabilitation

Network 4		Created: September 29, 2016	
Table 9a: Incident ESRD Patients in Network 4's Service Area, by Ethnicity and Race			
January 1, 2015 - December 31, 2015			
Ethnicity* Category	**Race* Category**	**Number**	**Percent**
Hispanic or Latino	American Indian/Alaska Native	0	0.0%
	Asian	2	0.9%
	Black or African American	4	1.8%
	Native Hawaiian or Other Pacific Islander	5	2.3%
	White	206	94.1%
	More Than One Race Reported	2	0.9%
	Total	219	100.0%
Not Hispanic or Latino	American Indian/Alaska Native	2	0.0%
	Asian	97	2.0%
	Black or African American	1226	25.1%
	Native Hawaiian or Other Pacific Islander	8	0.2%
	White	3558	72.7%
	More Than One Race Reported	2	0.0%
	Total	4893	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	9	100.0%
	Total	9	100.0%
	Total: Incident ESRD Patients	5121	

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: September 29, 2016	
Table 9b: Prevalent Dialysis Patients in Network 4's Service Area, by Ethnicity and Race			
January 1, 2015 - December 31, 2015			
Ethnicity* Category	**Race* Category**	**Number**	**Percent**
Hispanic or Latino	American Indian/Alaska Native	0	0.0%
	Asian	1	0.1%
	Black or African American	45	4.7%
	Native Hawaiian or Other Pacific Islander	22	2.3%
	White	874	92.0%
	More Than One Race Reported	8	0.8%
	Total	950	100.0%
Not Hispanic or Latino	American Indian/Alaska Native	12	0.1%
	Asian	285	1.6%
	Black or African American	6681	36.3%
	Native Hawaiian or Other Pacific Islander	42	0.2%
	White	11348	61.7%
	More Than One Race Reported	15	0.1%
	Total	18383	100.0%
Ethnicity Not Specified	American Indian/Alaska Native	0	0.0%
	Asian	0	0.0%
	Black or African American	1	20.0%
	Native Hawaiian or Other Pacific Islander	0	0.0%
	White	1	20.0%
	More Than One Race Reported	0	0.0%
	Not Specified	3	60.0%
	Total	5	100.0%
	Total: Prevalent ESRD Patients	19338	

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: September 29, 2016

Table 9c: Renal Transplant Recipients* in Network 4's Service Area, by Ethnicity and Race			
January 1, 2015 - December 31, 2015			
Ethnicity** Category	Race** Category	Number	Percent
Hispanic or Latino	American Indian/Alaska Native	0	0.0%
	Asian	1	1.7%
	Black or African American	5	8.3%
	Native Hawaiian or Other Pacific Islander	0	0.0%
	White	53	88.3%
	More Than One Race Reported	1	1.7%
	Total	60	100.0%
Not Hispanic or Latino	American Indian/Alaska Native	0	0.0%
	Asian	47	4.6%
	Black or African American	334	32.4%
	Native Hawaiian or Other Pacific Islander	9	0.9%
	White	639	62.0%
	More Than One Race Reported	2	0.2%
	Total	1031	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	20.0%
	More Than One Race Reported	0	0.0%
	Not Specified	4	80.0%
	Total	5	100.0%
	Total: Transplant ESRD Patients	1096	

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.