



End-Stage Renal Disease
Network of the Ohio River Valley

2016 Annual Report



Indiana Farmland

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REPORT HIGHLIGHTS

The IPRO End-Stage Renal Disease (ESRD) Network of the Ohio River Valley was awarded the contract for Network 9, which is responsible for the states of Indiana, Kentucky, and Ohio, on December 1, 2015. This was our first year working with the Network 9 community, and much of our focus has been on engaging patients, providers, and other key stakeholders in the Network area. It was an exciting year of learning and responding to the needs of the stakeholders in our service area, as we built relationships to sustain our work going forward.

In our first year, the Network met or exceeded every one of the quality improvement goals established in its contract with Centers for Medicare & Medicaid Services (CMS), improved data quality across the spectrum of ESRD databases, and raised our level of patient and family engagement through their sharing of personal stories and experience across the ESRD community. Our most notable accomplishments were in our work relative to vascular access management, grievance resolution, and transplant referral. In each of these projects, we exceeded quality improvement goals and created sustainable programs that we are carrying forward to our next year's work.

Network 9 is one of nine ESRD Networks that met the goal for reducing long-term catheter (LTC) in use rates in 2016. We attribute our success to the application of a progressive approach to education that offers a variety of training modes based on the needs and learning preferences of each individual. The goal of this strategy is to cultivate the problem-solving and planning skills of ESRD stakeholders so they are prepared to actively participate in quality improvement efforts. We are continuing this approach, with a focus on providing training on vascular access management strategies, as well as responding to real time vascular access trends identified through our electronic data tracking system. We are also continuing to build our educational programming involving patient representatives as ambassadors who will assist in training patients at the facility level.

With regard to grievance resolution, the number of potentially avoidable patient grievances filed with the Network was significantly reduced, largely due to implementation of the *ACT Now* program. This program encourages healthcare teams to take a holistic approach to patient communications by initiating discussions and proactively soliciting patients' questions and concerns before they escalate to the grievance level. We are expanding this program to include additional provider education on communication techniques designed to mitigate patient concerns and are adding a new patient education component.

In 2016, the overall rate of kidney transplant referrals in the Network area increased by 20%, while the gender disparity gap decreased by 13%. The Network also assisted target facilities in achieving a referral rate of greater than 75% of their eligible patients. These improvements are the result of the facilities conducting more frequent reviews of all of their patients listed as "eligible for transplant" using root cause analysis (RCA). The RCA approach was coupled with education on transplant program selection guideline variations and on placing patients on multiple transplant waiting lists as effective measures for improving overall transplant referral rates. We will expand our provider education offerings with the development of additional materials to continue to address gender disparity.

Overall, 2016 was a busy and productive year for IPRO ESRD Network of the Ohio River Valley. In the coming year, Network 9 will build on the relationships we have established with facility staff, patients and other community stakeholders who continue to share our common objective to improve the quality of care for individuals living with ESRD.

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 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.

IPRO ESRD NETWORK OF THE OHIO RIVER VALLEY (NETWORK 9)

IPRO ESRD Network of the Ohio River Valley (Network 9) is one of four ESRD Networks managed by IPRO, a non-profit organization that works with government agencies, providers, and consumers to implement innovative programs that improve the healthcare system. IPRO supports nearly 100 state and federal programs and is contracted by CMS as the Medicare Quality Innovation Network-Quality Improvement Organization (QIN-QIO) for New York State, South Carolina, and the District of Columbia.

IPRO also operates the ESRD Network of New York, ESRD Network of New England, and ESRD Network of the South Atlantic. IPRO is fully committed to the goals and vision of the ESRD Network Program and supports the renal community in promoting safe, effective, patient-centered care for more than 117,000 renal patients in 13 states.

Network 9’s service area comprises the states of Indiana, Kentucky, and Ohio. The largest population of patients in our Network service area resided in Ohio, which is approximately three times the population of our smallest state, Kentucky. In 2016, 29 new dialysis facilities opened in our Network service area, raising the number of facilities from 570 to 599 (see Table A). With 33,147 patients in the Network 9 area as of December 31, 2016, each facility served an average of 55 patients.

The Network 9 service area has more facilities with a lower patient census than most other ESRD Networks with approximately the same number of facilities, giving patients more options for selecting a facility, dialysis provider, treatment modality and schedule, and medical care. Conversely, having a larger number of facilities may present opportunities for clinical care staff to move between facilities or dialysis organizations, which can lead to staff shortages, leadership transition issues, and frequent retraining. Interrupting the continuity of care can also affect outcomes over time and make it harder to engage patients in their own care, which is critical to optimal treatment.

The Network continually refines its operations to support the changing needs of patients and stakeholders, using Web-based systems, electronic reporting, and standardized workflow processes to facilitate seamless transitions and quick assimilation of providers and staff into the Network's programs.

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	599
Number of Transplant Centers in the Network’s Service Area	14

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	599	
Dialysis Facilities in the Network’s Service Area Offering Dialysis Shifts Starting after 5 PM	89	14.9%

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.

In Network 9's service area, the number of incident patients at the end of calendar year 2016 was 9,330, an increase of 1% from 9,237 incident patients in 2015. In 2016, males comprised 57.2% of incident patients; 54.8% of incident patients were 65 or older. Diabetes continued to be the primary cause of ESRD in incident patients, followed by hypertension/large vessel disease.

As of 2016 year-end, 33,417 individuals were receiving dialysis in the Network's service area, an increase of 1.9% from 32,791 in 2015. Males represented 57% of prevalent dialysis patients; 47.8% of patients were 65 or older, a decrease of 7 percentage points over 2015.

In 2016, 709 renal transplants were performed at 14 transplant centers throughout the Network's service area. This represents a 6.9% increase in renal transplants over 2015.

For the complete analysis of ESRD patients in 2016, treatment types, and location of treatment, refer to the Data Tables starting on page 18.

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

Category	Number	Percent
Incident (New) ESRD Patients	9,330	
Number of Incident ESRD Patients, Calendar Year 2016	9,330	
Prevalent Dialysis Patients		
Number of Prevalent Dialysis Patients as of December 31, 2016	33,417	
Treatment Modality of Prevalent Dialysis Patients as of December 31, 2016		
In-Center Hemodialysis or Peritoneal Dialysis	29,094	87.2%
In-Home Hemodialysis or Peritoneal Dialysis	4,264	12.8%
Total	33,358	100.0%
Vascular Access Type at Latest Treatment among Prevalent In-Center and In-Home Hemodialysis Patients as of December 31, 2016		
Arteriovenous Fistula in Use	17,255	60.0%
Arteriovenous Graft in Use	5,546	19.3%
Catheter in Use for 90 Days or Longer	3,219	11.2%
Total	26,020	100.0%
Renal Transplants		
Number of Renal Transplant Recipients,* Calendar Year 2016	1,154	
Total	1,154	100.0%

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 stakeholders to improve care for ESRD patients in the Network's service area of Indiana, Kentucky, and Ohio.

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

- Identifying opportunities for quality improvement and developing interventions to improve care for ESRD patients within the Network 9 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.

Three particularly noteworthy projects conducted by Network 9 in 2016 are described in the paragraphs that follow.

Vascular Access Management

The Network achieved success in the Vascular Access Quality Improvement Activity (QIA), reducing the long-term catheter (LTC) in use rate in the target facilities by 2.13 percentage points from baseline. The keys to our success included implementing a progressive training approach and direct one-on-one communication between the Network and each facility, tailored to address the facility's needs. Facilities were chosen for the project based on having a catheter in use for 90 days or longer rate of greater than or equal to 10% of their patient census. There were 237 dialysis clinics enrolled in the project.

Interventions

The Network implemented an educational campaign to reduce the percentage of patients with catheters in use for 90 days or longer. Interventions included a series of webinars blending patient experience, best practices, successful strategies, and clinical information. To reinforce the educational information presented in the webinars, research articles were distributed after each event to the targeted facilities. All members of the Network community were invited to attend the webinars. The following list provides the chronology of events, with each component building on the last one.

- **January 2016 - Set the foundation:** The baseline data (for September 2016) was reviewed and 237 dialysis facilities with an LTC rate of 10% or greater were selected for inclusion, and all clinics were educated on the project interventions, expected outcomes, and project timelines.
- **February 2016 - Provide resources to facilitate learning:** Provider and patient educational materials were assembled into a toolkit for distribution to participants throughout the project.
- **May 2016 - Use experiential learning:** The Network hosted a webinar highlighting the role of the interdisciplinary team and the patient in vascular access management and the importance of enabling patients through methods such as self-cannulation as a means to overcome needle fear.

- **June 2016 - Highlight collaborative and cooperative learning:** The Network presented a webinar in which three dialysis facilities shared successful strategies and best practices.
- **August 2016 - Create understanding of the need for action:** The Network hosted a webinar on the *Impact of Long-term Catheter Use*, which featured case studies presented by an interventional specialist describing the side effects of long-term catheter use, as well as a presentation from a patient subject matter expert (SME), who shared her story about the effects of access choice on both her sister and herself.
- **September 2016 - Problem solving:** To complete the project, a local nephrologist presented a webinar offering problem solving strategies to prevent catheter placement titled *Seven Simple Steps to Catheter Avoidance*.

The Network deployed rapid cycle improvement methodology to help facilities overcome barriers to improvement. Network staff assessed quarterly facility data submissions to identify areas for improvement and provided one-on-one counseling to struggling facilities. The Network also collected best practices from high performing facilities that showed a marked decrease in their catheter rates.

Outcomes and Evaluation

The goals established by CMS were to decrease the LTC in use rate by two percentage points in the targeted facilities, while maintaining a 95% or greater access reporting rate per the national database, CROWNWeb. The target facilities achieved the goal in June 2016 and remained below the goal at 14.01% as of August 2016. Based on the final data measurement in September 2016, the following improvements were noted:

- The LTC in use rate decreased by 2.13 percentage points, from 16.14% to 14.01%.
- The rate of the facilities reporting in the Network increased by 7.09 percentage points, from 91.32% to 98.41%.

Table D provides the data used to calculate the LTC in use (≥ 90 days) rates in the project population at baseline and remeasurement.

Table D. Long-term Care Catheter Reduction Calculation

	Baseline Measurement 2015	Re-measurement August 2016
Number of Patients with LTC in Use (Numerator)	2,354	2,072
Facility Census (Denominator)	14,581	14,793
LTC in Use Rate	16.14%	14.01%

LTC = long-term catheter (catheter in use for ≥ 90 days)

Lessons Learned

- Targeted, step-by-step training enabled facilities to build an understanding of the issues and methodology necessary to reduce LTC use rates.
- Focused education and one-to-one communication sustained attention on the improvement activity.
- Timely data collection with follow-up on facility data trends is a best practice to keep target facilities engaged.
- Patient advocacy is a powerful strategy for reducing the use of catheters as well as the prevalence of catheter use as a long-term vascular access option.

Sustainability

Based on our achievements last year, the Network will continue to implement focused and tailored training activities in 2017. The educational resources we provide are being posted to our website with the goal of building a quality improvement educational series that any facility in the Network's service area can access to improve its capacity to address identified issues in reducing LTC in use rates.

We have also developed and initiated an electronic data submission form for vascular access reporting that will not only improve our ability to gather and react quickly to trends at the target facility level but will also allow us to develop a database to sustain Network analysis and intervention planning.

Evaluating and Resolving Grievances - ACT Now

The grievance Quality Improvement Activity (QIA) focused on assisting participating facilities in improving utilization of the facility grievance process and in enhancing communication among their patients, facility staff, and the Network. Facilities were selected to participate based on the number of grievances and/or access to care issues that were reported by their patients to the Network. Each reported grievance or issue was assigned points based on the grievance scoring matrix supplied by CMS (see Table E below). The grievances with the highest point value were those that CMS identified as being easily mitigated at the facility level, i.e., environmental, interpersonal, and operational issues. The assigned points were summed each month to create a grievance score for each facility.

The goal of the QIA was to reduce each facility's grievance score by 20% from the baseline established in March 2016 to re-measurement in October 2016 by implementing interventions aimed at addressing the highest-scoring issues. The Network exceeded the goal by achieving a reduction of more than 60% from the baseline score of 9.75 to the final score of 3.84.

Table E. CMS 5-Point Grievance Scoring Matrix

Points	Description of Issues	Examples of Issues
1	Major QoC or Access to Care issues	Major bleeds, wrong dialyzer, prescription changes without physician order, IVDs either at risk or actual
2	Minor QoC issues	Simple bleeding after dialysis, minor infection control issues
3	Operational issues	Inadequate staffing, other issues related to the operation of the facility
4	Interpersonal Issues	Conflicts between patients, conflicts between staff and patients
5	Environmental issues	Facility too cold, basic maintenance issues such as chair, lobby

Selection and Recruitment of Project Participants

The Network conducted a focused audit of grievances filed with facilities in the Network's service area from January 1 to March 31, 2015, and from July 1 to September 30, 2015. Based on this analysis, 30 facilities were asked to submit their grievance logs to the Network during the three-month period from January through March of 2016. Grievances were categorized and scored using the CMS scoring matrix above. The 12 facilities with the highest (worst) scores during this period were selected.

Interventions

Based on our review of the grievances received, the Network identified that providers tended to focus on the physical aspect of a patient's treatment while ignoring issues related to the patient's experience of care or perceived needs. The Network implemented the ACT Now campaign (A = Ask questions; C=Communicate effectively; T=Take action) to promote proactive communication between patients and staff.

The *ACT Now* campaign encouraged facility staff to ask patients directly about all aspects of their care during "check-in" sessions. The goals were to increase staff awareness of patients' needs and create an environment in which patients felt empowered to verbalize their concerns openly so that, together with their healthcare team, they could achieve resolution to a problem or concern without having to file a grievance.

To implement *ACT Now*, the Network initiated several educational interventions. Our first activity was to create a pocket card suggesting some questions staff could use to initiate patient discussion during check-in sessions. We educated facility staff on how to conduct these check-in sessions and asked them to incorporate communications of this nature into their care processes. We also educated the facilities on issues commonly raised by patients and methods to effectively resolve concerns, as well as shared best practices identified throughout the project in working through these issues.

Last, we identified common problems experienced by patients and provided tools to help facility staff educate patients on resolving them, such as our *Why Do I Feel So Cold During Dialysis?* poster, which provided tips for patients on how to be more comfortable during their treatment.

Outcomes and Evaluation

Each month, participants submitted their facility's grievance logs to the Network to be scored using the five-point scale (see Table E above). The Network monitored each facility's progress toward the goal and provided technical support as needed.

Facilities were also asked to complete weekly electronic surveys and report the successes and barriers they encountered to the Network. Facility staff reported that by incorporating *ACT Now* into their facility, communication with their patients was enhanced and improved. Patients also verbalized that they felt more comfortable expressing their concerns to staff.

The Network exceeded the project goal, decreasing the grievance score in participating facilities by more than 60% from a baseline of 9.75 to 3.84.

Lessons Learned

Some facilities needed clarification regarding when a patient's complaint constituted a true grievance that should be reported to the Network versus a concern that could be resolved at the facility level. Network staff provided the needed clarification and has improved its training materials to avoid any confusion in the future.

Another lesson learned was that requiring facilities to submit surveys on a weekly basis was excessive and did not give facilities adequate time to examine the effects of the interventions and provide quality feedback to the Network. The Network therefore eliminated the weekly reporting requirement and collected the required feedback at the conclusion of the measurement period, which resulted in an increased facility response rate and provided a more realistic model for future assessments.

Finally, reviewing this project with patient and facility SMEs throughout the year led to the identification of two critical areas to further support this work. We need to continue to educate facility staff and patients to (1) effectively work through issues and (2) develop a patient component to the *Act Now* campaign.

Sustainability

Due to the success of this program, the Network is continuing and expanding the *ACT Now* proactive communication campaign. We have built upon previously developed educational materials and added the two new focuses as mentioned above. Our goal is to refine the program through future QIA work into a standard communication education program that can be utilized in every facility to reduce grievances and eventually be adopted as a standard technique to improve communication in our region.

Successful Collaborations

The Network collaborated with IPRO ESRD of New England to develop and implement this program. Through our shared review of data we have been able to modify and update the program to meet the needs of both communities. Sharing our experience has allowed us to monitor the benefits of this program over a larger population of patients in geographically different circumstances.

Improving Transplant Coordination

Network 9 selected the topic of Transplant Referral for the Population Health Focused Pilot Project (PHFPP). The goals for this project were to increase transplant referrals by 5%, reduce a noted population disparity in referrals by 1%, and achieve a > 75% referral rate for all eligible patients in project facilities. Network 9 met or exceeded every goal of this project by increasing overall transplant referrals by 20%, decreasing the disparity in referrals by 13%, and achieving a greater than 75% eligible patient referral rate in all project facilities.

The Network worked with 5% of the ESRD population in its service area, including 1,680 patients in 17 facilities in two geographic areas. The focus disparity was determined by performing the CMS-required assessment, which identified a gender disparity in the targeted facilities, with 9% of females referred compared to 16% of males, for a disparity of 7 percentage points between the genders (see Tables 1 and 2).

Interventions

To reinforce the goals of the project, a transplant referral toolkit was developed for facility staff and patients containing educational materials to encourage women to consider transplant, transplant referral processes, organ allotment, and peer mentoring. The transplant referral toolkit materials were organized into a binder as an ongoing reference for the facility and were introduced, demonstrated, and explained to staff on Network site visits.

During the Network site visits, a root cause analysis (RCA) of each facility's current transplant status list was performed, which helped to identify potential transplant candidates who had previously been missed. Additionally, the RCAs identified a need for a document that contained concise and consolidated transplant center selection criteria, additional disparity-based educational tools, and ongoing processes to evaluate the patient referral list.

Based on these additional findings, the Network created resources to add to the initial transplant toolkit such as a consolidated reference for the transplant criteria of the 12 adult transplant centers in the region and a handout for female patients focused on education for transplant referral.

Outcomes and Evaluation

The goals established by CMS were to increase the transplant referral rate by five percentage points, decrease the disparity gap by one percentage point, and work with facilities until they reached a

referral rate of 75% of their eligible population. On a monthly basis, the Network gathered information from the target facilities regarding their overall number of transplant referrals, as well as the number of male versus female transplant referrals made that month.

To produce the overall transplant referral rate, the total number of referrals for the months of March through September of 2015 (597) was divided by the CROWNWeb-generated facility census (1,660). Likewise, to produce the female-specific transplant referral rate, the number of female referrals (291) from the target facilities was divided by the female census (741) for the same time period.

Results were as follows:

- Baseline referrals of the target facilities collected between March and September 2015 totaled 291. The total cumulative number of referrals collected between March and September 2016 was 597. This was a 48.74% increase in female transplant referrals.
- The male-to-female disparity was eliminated during the course of the project (March through September 2016).
- All target facilities reached a > 75% referral rate for eligible patients.

Lessons Learned

The PHFPP is an innovation driven project requiring the Network to continually assess and improve initial interventions working toward the QIA goals. Lessons learned include the following:

- The Network community required more education in the areas of what create disparity in the referral process, transplant center selection criteria, organ allotment guidelines, and the option to be placed on multiple transplant waiting lists
- Increasing transplant referrals in the target population was not sufficient to decrease the disparity; a gender-centered focus was required.
- Facilities need to review their transplant eligibility at a more frequent rate and engage in an RCA-focused effort to assure they maintain a full list of eligible transplant candidates.
- Facilities and patient SMEs reviewing the toolkit to determine which materials were successful in stimulating patient interest in transplant was an effective method to improve and enhance toolkit resources.

Sustainability

The PHFPP QIA is a multi-year project. To sustain the improvements, forms and tools created in 2016 will be reviewed and updated as appropriate in 2017. A consolidated listing of transplant selection criteria by transplant center was posted to the Network website for all facilities in the region to utilize. Resources from the Transplant Referral Toolkit on disparities in health care, organ allotment, the option to be placed on multiple transplant waiting lists, and living donors are available to the entire community via the Network website. In 2017, the Network intends to continue the practice of performing an extensive review of the transplant eligible list using an RCA process with each target facility and will ask facilities to conduct these types of reviews more frequently. We look to develop this procedure as a best practice as we progress through the coming year and spread it as a desired method to increase transplant referrals.

Successful Partnerships

The Network collaborated with the Centers for Reducing Disparities in Health Care at Case Western Reserve University to implement this project. This partnership provided the Network with innovative ideas for gathering and analyzing the referral data supplied to the Network from facilities, which

increased patients on the facility's list for transplant referral and assisted with improving overall transplant referral rates for the project. Case Western also assisted the Network in the development of a transplant referral information sheet targeting female patients to increase their referrals. After the distribution of this referral information sheet, an additional 119 females were referred for transplantation in July and August.

Other Noteworthy Activities

Data Quality Improvement

In addition to its responsibilities under contract with CMS, Network 9 strove to improve data support to dialysis facilities and other stakeholder with an overall goal of improving data quality. To address this issue, the Network adopted an innovative software program known as FreshDesk, which assisted the Network in providing this essential technical support. Historically, our Network receives a high volume of calls and emails related to CROWNWeb and other ESRD-related applications, as well as the ESRD QIP and NHSN from dialysis facility personnel and stakeholders. Adopting FreshDesk, a Web-based ticket management and knowledgebase portal, has allowed us to increase our responsiveness and support for the region. The program is available to users at all times of the day, provides educational resources, and allows for the creation of a ticket to assure timely response and resolution of all user queries.

FreshDesk also provided metrics on effectiveness in meeting acceptable response times for resolution and customer satisfaction, giving the Network the ability to monitor and improve customer support. The knowledge base portal is an educational resource for facility staff in addressing deadlines and standard practice questions related to CMS forms: ESRD Medical Evidence, Death Notification, and Annual Survey. Implementation of FreshDesk created efficiencies that resulted in reduced call volume, enabling the Network to track and respond to community needs through standardized reporting, and providing documentation for responses to all queries in the order in which they were received.

Patient Engagement

The Network understands the value of patient and family engagement for persons living with kidney disease. To that end, we have enlisted our patient SMEs to participate at levels above and beyond the activities required by CMS for a patient advisory committee member. We have encouraged them to share their personal experiences in facing ESRD to assist not only our Network community but also IPRO's entire ESRD program. Every one of our patient SMEs work with our quality department to assess what area is appropriate for their level of experience and their personal journey. Through the unique relationships we have fostered, we have encouraged our patient SMEs to present to the community at large on four different occasions and initiated a patient-written newsletter that is widely disseminated.

Two patient SMEs presented webinars to all four IPRO Networks on vascular access in 2016. One presentation focused on self-cannulation as a means to overcome needle phobia at the *Joint Network Vascular Access Quality Improvement Webinar* on May 10, 2016. The second SME presented a moving personal account of the impact of a patient's death due to a blood stream infection related to a long-term catheter placement. These presentations reached close to 300 providers across the Network system and are recorded and available on our website for future education.

The Network began publication of its bi-monthly patient-centered newsletter, *PAC Speaks*, in September 2016. Written by patients for patients in the Network area, the newsletter provides an effective forum for delivering important messages in support of our quality improvement efforts, as

expressed by fellow patients. We believe this newsletter allowed us to draw on the credibility that patients have with their peers and supported our efforts to connect meaningfully with patients.

In March 2016, the Network attended the Ohio Renal Association Meeting in Columbus. Two ESRD patients and a caregiver made presentations based on their life experiences. One presentation focused on living with ESRD in a rural area and actively participating in home dialysis. A second presentation discussed a patient's success with transplantation and the impact of goal setting.

Our goal is to grow and continue this level of patient participation and support encouraging our patient advisory committee members to become the voice of our Network in our mission to improve quality and access to care for all.

Facilities that Consistently Failed to Cooperate with Network Goals

The Network did not identify any facilities in its service area that failed to cooperate with Network goals in 2016.

Recommendations to CMS for Additional Services or Facilities

In 2016, the Network made no recommendations to CMS for additional facilities.

GRIEVANCES AND ACCESS TO CARE

The Network responded to 116 grievances that were filed by or on behalf of ESRD patients in its service area. Of these, none involved access to care issues. Access to care "grievance cases" are those reported to the Network by or on behalf of the patient. When access to care cases are initiated by facility staff, they are referred to as "non-grievance" cases.

Throughout 2016, the Network observed that a number of patients were being discharged from facilities for disruptive behavior. Several facilities contacted the Network seeking guidance on how to manage this difficult population. The Network provided guidance and technical support to facilitate resolution of these situations.

To help the ESRD community address this issue, the Network developed the *Preventing the Involuntary Discharge of Dialysis Patients Facility Guide and Checklist*. The purpose of this guide was to assist dialysis facilities with establishing and standardizing a process for working with patients who are at risk for discharge. Used in conjunction with a provider's own policy and procedures, the guide reduced the number of involuntary discharges that occurred across the Network's service area.

Table F. Grievance Data for Calendar Year 2016

Category	Number
Number of Grievance Cases Opened by the Network in Calendar Year 2016	116
Number of Grievance Cases Involving Access to Care:	0
Number of Grievance Cases Involving Involuntary Transfer	0
Number of Grievance Cases Involving Involuntary Discharge	0
Number of Grievance Cases Involving Failure to Place	0
Number of Non-Grievance Cases Involving Access to Care:	51
Number of Non-Grievance Cases Involving Involuntary Transfer	6
Number of Non-Grievance Cases Involving Involuntary Discharge	28
Number of Non-Grievance Cases Involving Failure to Place	17
Total Number of Grievance and Non-Grievance Cases Involving Access to Care	51
Number of Grievance Cases Closed by the Network in Calendar Year 2016	107

Source of data: Patient Contact Utility.

Cases Referred to State Survey Agencies

The Network referred a total of eight cases to State Survey Agencies in 2016 for investigation. The reasons for referral included issues related to infection control in the treatment area, physical plant issues, facility policy and procedures, and professionalism among facility staff.

Two referrals were substantiated upon review by the state surveyor. One was initiated for infection control concerns pertaining to the treatment area being too warm, excessive clutter on the countertops, and HIPAA policy and procedure violations. The second referral was initiated due to concerns about facility and equipment conditions, facility policy and procedure, medical errors, and patient care. Each facility was requested to prepare and submit a plan of correction to its respective State Survey Agency.

Three referrals were initiated by the Network, which, on inspection of the facility by the State Survey Agency, were found to be unsubstantiated. One referral involved a patient being discharged by a physician due to non-compliance. The second referral was initiated due to concerns with infection

control policy and procedure in the dialysis facility. The third referral was initiated due to concerns regarding unprofessionalism of staff and issues regarding the facility's infection policy and procedure.

Two referrals were made at the same dialysis facility and called in by the same patient, who requested anonymity. Concerns were related to facility temperature, patient care, equipment functioning, and staff professionalism. The State Survey Agency has not investigated these referrals due to their being classified as low priority.

EMERGENCY PREPAREDNESS AND RESPONSE

The Network reported three emergency situations during calendar year 2016.

On June 22, 2016, the Network informed the kidney community of flash flood warnings via a weather advisory email. The advisory was issued with resources for dialysis patients who were unable to make treatments and information for the clinic during emergencies. Facility personnel were asked to complete the Network Emergency Impact Report via Survey Monkey to report any closings or delays. No clinics reported closings or delays, and all patients were dialyzed during their normal shifts.

A Network Emergency Alert for a wind chill advisory and lake effect snow for Northern Indiana and the majority of Northeast Ohio was sent to facilities in the affected areas in both states on December 15, 2016. Emergency Diet Guidelines were sent to clinics for dissemination to patients. No facilities reported closings or delays, and all patients were dialyzed as scheduled.

A storm system that developed in the late afternoon to evening of August 24, 2016, in the Network's service area created the threat of tornado activity for portions of Ohio and Indiana. The Network became aware of this evolving situation late in the evening of the August 24, and on August 25 when facility operations were set to resume, checked in with facilities in the storm path to see if they had been affected by the event. The Network identified 11 facilities (8 in Indiana and 3 in Ohio) that were located within the tornado warning area. Each of these facilities was contacted directly and the Network confirmed that none of the facilities experienced any damage or significant interruption in services. One facility closed early on the evening of August 24 and made accommodations for its last patient. A facility with a home program made contact with each of its home patients as power was being restored. All 11 facilities committed to report to us if any patients were missing treatment after the event.

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APPENDIX. DATA TABLES

Table 1. Incident (New) ESRD Patients in Network 9's Service Area, by Patient Characteristics (January 1, 2016 - December 31, 2016)

Network 9's Service Area	KY	IN	OH	Other	Number	Percent
Age Group						
<= 4 Years	3	4	8	0	15	0.2%
5-9 Years	0	6	3	0	9	0.1%
10-14 Years	5	4	10	0	19	0.2%
15-19 Years	5	11	11	0	27	0.3%
20-24 Years	13	21	22	1	57	0.6%
25-29 Years	18	29	64	2	113	1.2%
30-34 Years	25	46	91	8	170	1.8%
35-39 Years	53	80	119	7	259	2.8%
40-44 Years	61	102	189	8	360	3.9%
45-49 Years	100	122	261	16	499	5.3%
50-54 Years	114	200	345	19	678	7.3%
55-59 Years	178	245	509	21	953	10.2%
60-64 Years	243	322	594	34	1,193	12.8%
65-69 Years	258	382	732	37	1,409	15.1%
70-74 Years	237	307	668	40	1,252	13.4%
75-79 Years	201	276	543	52	1,072	11.5%
80-84 Years	127	186	449	19	781	8.4%
>= 85 Years	67	123	271	16	477	5.1%
Network-Level Total	1,708	2,466	4,889	280	9,343	100.0%
Median Age	65	65	66	68	66	
Gender						
Female	724	1,047	2,105	124	4,000	42.8%
Male	984	1,419	2,784	156	5,343	57.2%
Network-Level Total	1,708	2,466	4,889	280	9,343	100.0%
Ethnicity*						
Hispanic or Latino	31	105	119	12	267	2.9%
Not Hispanic or Latino	1,673	2,359	4,752	268	9,052	96.9%
Not Specified	4	2	18		24	0.3%
Network-Level Total	1,708	2,466	4,889	280	9,343	100.0%
Race*						
American Indian/Alaska Native	0	2	3	0	5	0.1%
Asian	12	36	40	1	89	1.0%
Black or African American	270	459	1,190	68	1,987	21.3%
Native Hawaiian or Other Pacific Islander	5	8	17	1	31	0.3%
White	1,416	1,958	3,614	210	7,198	77.0%
More Than One Race Reported	1	1	7	0	9	0.1%
Not Specified	4	2	18		24	0.3%
Network-Level Total	1,708	2,466	4,889	280	9,343	100.0%
Primary Cause of ESRD*						
Diabetes	897	1,159	2,284	123	4,463	47.8%
Glomerulonephritis	83	157	272	17	529	5.7%

Secondary Glomerulonephritis/Vasculitis	27	43	65	1	136	1.5%
Interstitial Nephritis/Pyelonephritis	29	47	135	6	217	2.3%
Transplant Complications	5	10	27	1	43	0.5%
Hypertension/Large Vessel Disease	440	670	1,155	86	2,351	25.2%
Cystic/Hereditary/Congenital/Other Diseases	58	78	158	6	300	3.2%
Neoplasms/Tumors	33	39	106	5	183	2.0%
Disorders of Mineral Metabolism	1	1	3	0	5	0.1%
Genitourinary System	7	2	14	1	24	0.3%
Acute Kidney Failure	27	79	188	12	306	3.3%
Miscellaneous Conditions	71	112	335	16	534	5.7%
Not Specified	30	69	147	6	252	2.7%
Network-Level Total	1,708	2,466	4,889	280	9,343	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.

Table 2. Prevalent Dialysis Patients in Network 9's Service Area, by Patient Characteristics (as of December 31, 2016)

Network 9's Service Area	KY	IN	OH	Other	Number	Percent
Age Group						
<= 4 Years	1	9	13	1	24	0.1%
5-9 Years	0	5	7	0	12	0.0%
10-14 Years	5	7	15	0	27	0.1%
15-19 Years	12	18	34	2	66	0.2%
20-24 Years	31	64	109	5	209	0.6%
25-29 Years	71	101	232	11	415	1.2%
30-34 Years	106	200	330	17	653	2.0%
35-39 Years	188	282	516	27	1,013	3.0%
40-44 Years	292	431	761	37	1,521	4.6%
45-49 Years	422	605	1,149	57	2,233	6.7%
50-54 Years	532	797	1,522	72	2,923	8.7%
55-59 Years	693	1,029	2,058	94	3,874	11.6%
60-64 Years	864	1,167	2,390	96	4,517	13.5%
65-69 Years	859	1,317	2,553	88	4,817	14.4%
70-74 Years	675	1,080	2,061	84	3,900	11.7%
75-79 Years	575	896	1,697	89	3,257	9.7%
80-84 Years	342	652	1,268	62	2,324	7.0%
>= 85 Years	225	432	932	41	1,630	4.9%
Network-Level Total	5,893	9,092	17,647	783	33,415	100.0%
Median Age	63	64	64	63	64	
Gender						
Female	2,534	3,879	7,603	307	14,323	42.9%
Male	3,359	5,213	10,044	476	19,092	57.1%
Network-Level Total	5,893	9,092	17,647	783	33,415	100.0%
Ethnicity*						
Hispanic or Latino	102	427	429	50	1,008	3.0%
Not Hispanic or Latino	5,791	8,662	17,213	733	32,399	97.0%
Not Specified		3	5		8	0.0%
Network-Level Total	5,893	9,092	17,647	783	33,415	100.0%
Race*						
American Indian/Alaska Native	1	4	11	0	16	0.0%
Asian	31	84	141	4	260	0.8%
Black or African American	1,552	2,548	6,569	249	10,918	32.7%
Native Hawaiian or Other Pacific Islander	24	26	43	1	94	0.3%
White	4,272	6,415	10,856	529	22,072	66.1%
More Than One Race Reported	12	12	22	0	46	0.1%
Not Specified	1	3	5		9	0.0%
Network-Level Total	5,893	9,092	17,647	783	33,415	100.0%
Primary Cause of ESRD*						
Diabetes	2,745	4,50	7,921	316	15,032	45.0%
Glomerulonephritis	462	743	1,486	61	2,752	8.2%
Secondary	116	185	348	13	662	2.0%

Glomerulonephritis/Vasculitis						
Interstitial Nephritis/Pyelonephritis	155	228	535	19	937	2.8%
Transplant Complications	9	14	33	1	57	0.2%
Hypertension/Large Vessel Disease	1,589	2,528	4,492	237	8,846	26.5%
Cystic/Hereditary/Congenital/Other Diseases	213	326	687	28	1,254	3.8%
Neoplasms/Tumors	188	317	566	23	1,094	3.3%
Disorders of Mineral Metabolism	1	1	3	0	5	0.0%
Genitourinary System	7	4	15	1	27	0.1%
Acute Kidney Failure	16	52	133	12	213	0.6%
Miscellaneous Conditions	350	552	1,286	63	2,251	6.7%
Not Specified	42	92	142	9	285	0.9%
Network-Level Total	5,893	9,092	17,647	783	33,415	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, 2016.

2. This table may include data on some patients receiving dialysis services from U.S. Department of Veterans Affairs (VA) facilities.

Affairs (VA) facilities.

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

Table 3. In-Home Dialysis Patients In Network 9'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
Kentucky						
150017	0	0	0	0	0	0
15003F	0	0	0	0	0	68
150056	0	0	0	0	0	0
150084	0	0	0	0	0	0
152500	4	14	9	0	27	144
152501	0	0	17	0	17	132
152502	0	0	0	0	0	163
152503	0	0	8	0	8	64
152504	5	8	5	0	18	127
152507	0	0	0	0	0	30
152509	0	7	22	0	29	157
152510	3	8	9	0	20	130
152511	0	0	8	0	8	41
152512	0	0	0	0	0	87
152514	0	0	0	0	0	18
152515	3	12	17	0	32	88
152516	0	2	12	0	14	108
152517	0	0	0	0	0	46
152518	0	3	10	0	13	68
152520	0	0	0	0	0	99
152521	0	2	8	0	10	165
152522	6	2	7	0	15	109
152523	3	5	5	0	13	69
152524	0	0	0	0	0	63
152525	3	13	32	0	48	139
152526	1	1	21	0	23	124
152527	0	0	3	0	3	34
152530	0	0	0	0	0	97
152531	0	0	0	0	0	41
152532	6	12	35	0	53	53
152534	0	0	0	0	0	33
152535	0	0	0	0	0	17
152536	0	0	0	0	0	94
152537	0	0	0	0	0	50

152538	0	0	0	0	0	37
152539	0	0	0	0	0	29
152541	12	2	17	0	31	118
152542	0	0	0	0	0	97
152543	0	0	0	0	0	105
152545	0	0	0	0	0	19
152546	0	4	12	0	16	77
152547	0	5	10	0	15	152
152549	0	1	3	0	4	107
152550	0	2	12	0	14	54
152551	0	0	0	0	0	31
152552	2	9	6	0	17	66
152553	0	0	0	0	0	46
152554	0	0	0	0	0	71
152556	1	2	29	0	32	83
152558	0	11	8	0	19	84
152560	0	0	0	0	0	84
152561	0	0	0	0	0	54
152562	0	0	0	0	0	39
152564	0	0	0	0	0	76
152565	0	0	0	0	0	26
152566	0	0	0	0	0	53
152567	0	0	0	0	0	45
152568	0	0	0	0	0	38
152569	4	38	25	0	67	159
152571	0	0	0	0	0	131
152572	2	2	3	0	7	54
152573	0	0	0	0	0	21
152574	0	0	0	0	0	29
152575	0	0	0	0	0	18
152576	0	0	0	0	0	68
152577	0	0	0	0	0	39
152579	1	5	22	0	28	95
152581	0	1	16	0	17	89
152582	0	0	0	0	0	25
152583	0	0	0	0	0	27
152584	0	0	0	0	0	45
152585	0	0	0	0	0	106
152586	0	0	0	0	0	50
152588	2	14	25	0	41	41

152589	0	0	0	0	0	20
152590	0	0	0	0	0	26
152591	0	0	0	0	0	76
152592	0	0	0	0	0	62
152593	0	0	0	0	0	101
152594	2	1	5	0	8	91
152595	12	4	15	0	31	69
152596	3	5	11	0	19	114
152597	14	5	32	0	51	51
152598	0	0	0	0	0	49
152599	0	0	13	0	13	57
152600	0	0	0	0	0	24
152601	6	3	20	0	29	111
152602	0	0	0	0	0	25
152603	0	5	2	0	7	37
152604	0	0	0	0	0	23
152605	0	0	0	0	0	47
152606	0	0	0	0	0	41
152607	4	3	12	0	19	104
152608	0	0	0	0	0	24
152609	0	0	0	0	0	42
152610	0	1	3	0	4	38
152611	0	0	0	0	0	49
152612	2	10	46	0	58	58
152613	0	0	0	0	0	11
152614	0	0	0	0	0	30
152615	3	1	6	0	10	21
152616	1	4	7	0	12	66
152617	1	5	3	0	9	39
152618	0	0	0	0	0	28
152619	0	0	0	0	0	26
152620	0	0	5	0	5	35
152621	0	0	0	0	0	7
152622	0	0	0	0	0	45
152623	0	0	7	0	7	67
152624	0	0	0	0	0	20
152625	0	0	0	0	0	42
152626	0	1	5	0	6	30
152627	0	1	1	0	2	19
152628	0	0	0	0	0	17

152629	0	0	0	0	0	39
152630	1	0	9	0	10	62
152631	0	0	0	0	0	55
152632	0	0	0	0	0	39
152634	0	3	8	0	11	59
152635	0	0	0	0	0	69
152636	0	0	0	0	0	26
152637	8	9	17	0	34	86
152638	0	0	7	0	7	40
152640	0	5	0	0	5	42
152641	0	0	0	0	0	32
152642	0	2	7	0	9	53
152643	0	0	0	0	0	49
152644	0	0	0	0	0	53
152645	2	7	3	0	12	64
152646	0	0	0	0	0	32
152647	0	0	0	0	0	106
152648	6	0	25	0	31	85
152649	5	1	42	0	48	48
152650	3	0	0	0	3	19
152651	0	3	6	0	9	36
152652	2	1	1	0	4	38
152653	0	0	0	0	0	110
152654	2	8	13	0	23	74
152655	2	6	11	0	19	62
152656	0	0	0	0	0	22
152657	0	12	5	0	17	76
152658	0	0	0	0	0	55
152659	0	0	0	0	0	29
152660	0	0	0	0	0	46
152661	0	1	1	0	2	67
152662	5	5	2	0	12	12
152663	0	0	1	0	1	7
152664	0	1	2	0	3	39
152665	0	2	1	0	3	13
152666	0	0	0	0	0	22
152667	0	0	0	0	0	34
152668	1	2	9	0	12	47
152669	0	0	0	0	0	20
152670	0	0	3	0	3	37

152671	0	0	6	0	6	59
152672	0	3	10	0	13	66
152673	0	0	1	0	1	25
152674	1	0	0	0	1	3
152675	3	3	11	0	17	51
152676	0	0	1	0	1	12
152677	0	0	0	0	0	4
153510	0	0	0	0	0	119
153515	0	0	0	0	0	60
153521	54	20	30	0	104	104
153522	0	0	17	0	17	25
IN Total	201	328	858	0	1,387	9,520
Kentucky						
180017	0	0	0	0	0	63
180040	0	0	0	0	0	0
18005F	0	0	0	0	0	24
180067	0	0	0	0	0	0
180067	0	0	4	0	4	7
180088	0	0	0	0	0	0
182501	13	2	9	0	24	117
182502	0	0	1	0	1	35
182503	0	0	0	0	0	58
182504	0	6	32	0	38	76
182505	0	5	14	0	19	120
182507	7	4	4	0	15	47
182508	0	0	3	0	3	67
182509	0	1	9	0	10	61
182512	0	0	0	0	0	52
182513	0	0	9	0	9	79
182514	0	0	0	0	0	62
182516	0	0	14	0	14	102
182517	0	0	12	0	12	114
182518	2	3	5	0	10	45
182519	0	1	8	0	9	69
182521	0	0	0	0	0	78
182523	0	0	0	0	0	100
182524	3	0	7	0	10	44
182526	0	0	0	0	0	50
182527	0	0	0	0	0	59
182529	0	0	0	0	0	62

182530	0	0	0	0	0	50
182532	5	1	6	0	12	79
182533	0	0	1	0	1	38
182534	0	0	0	0	0	94
182535	0	0	0	0	0	73
182536	0	0	0	0	0	46
182537	0	0	0	0	0	53
182538	0	0	2	0	2	31
182540	0	1	16	0	17	58
182541	0	0	4	0	4	33
182542	0	0	0	0	0	46
182543	0	0	0	0	0	92
182544	0	0	0	0	0	69
182547	0	2	3	0	5	84
182548	0	0	2	0	2	35
182549	0	0	0	0	0	45
182550	0	2	5	0	7	65
182551	0	0	0	0	0	16
182552	5	1	29	0	35	103
182553	0	0	0	0	0	49
182554	0	0	0	0	0	52
182555	0	0	0	0	0	47
182556	0	0	0	0	0	69
182558	0	0	0	0	0	62
182559	0	0	0	0	0	53
182560	0	0	0	0	0	41
182561	0	0	0	0	0	24
182562	0	0	0	0	0	25
182563	0	0	0	0	0	49
182565	0	0	4	0	4	36
182566	0	0	2	0	2	35
182567	0	0	0	0	0	76
182568	0	0	0	0	0	18
182569	2	3	37	0	42	42
182570	0	0	0	0	0	50
182572	0	0	0	0	0	27
182573	0	0	4	0	4	33
182574	0	0	0	0	0	36
182575	0	0	0	0	0	22
182576	0	0	0	0	0	26

182577	0	0	0	0	0	26
182578	0	0	0	0	0	28
182580	0	1	7	0	8	45
182581	1	6	7	0	14	105
182582	0	0	0	0	0	73
182583	0	0	0	0	0	28
182584	0	0	0	0	0	35
182586	11	3	65	0	79	79
182587	2	0	5	0	7	54
182588	0	0	0	0	0	32
182589	1	2	12	0	15	59
182590	0	0	0	0	0	51
182591	3	5	26	0	34	82
182592	0	0	0	0	0	41
182594	0	1	9	0	10	43
182595	0	0	0	0	0	42
182596	0	0	0	0	0	39
182597	0	1	7	0	8	64
182598	0	0	7	0	7	40
182599	0	3	8	0	11	56
182600	0	0	0	0	0	23
182601	0	8	7	0	15	63
182602	1	3	10	0	14	55
182603	0	0	0	0	0	37
182604	0	0	0	0	0	46
182605	0	0	1	0	1	41
182606	0	0	0	0	0	28
182607	0	0	3	0	3	41
182608	0	0	0	0	0	18
182609	20	0	0	0	20	73
182610	0	0	0	0	0	37
182611	0	0	0	0	0	57
182612	3	19	14	0	36	105
182613	5	16	22	0	43	43
182614	0	0	0	0	0	32
182615	0	1	11	0	12	72
182616	1	0	0	0	1	21
182617	3	0	0	0	3	3
182618	0	0	0	0	0	50
182619	1	1	9	0	11	52

182620	0	1	1	0	2	27
182621	1	0	11	0	12	76
182622	0	0	0	0	0	31
182623	0	0	0	0	0	70
182624	0	0	0	0	0	63
182625	9	1	8	0	18	60
182626	0	8	15	0	23	23
182627	6	7	43	0	56	56
182628	0	0	0	0	0	36
182629	0	0	0	0	0	24
182630	0	0	0	0	0	16
182631	0	2	0	0	2	18
KY Total	105	121	554	0	780	5,992
Ohio						
360003	0	0	0	0	0	0
360009	0	5	16	0	21	69
360024	1	0	0	0	1	86
36003F	0	2	0	0	2	25
360048	0	0	0	0	0	0
360048	0	0	0	0	0	6
36004F	0	0	0	0	0	74
360066	0	0	0	0	0	0
360068	0	0	0	0	0	12
36007F	0	0	2	0	2	47
360085	0	0	0	0	0	0
360099	0	0	0	0	0	29
360112	0	0	0	0	0	15
360137	0	0	0	0	0	0
360137	2	0	19	0	21	61
360163	0	0	0	0	0	0
360180	0	0	0	0	0	0
360229	0	0	6	0	6	12
360229	0	0	0	0	0	0
362500	0	0	0	0	0	293
362501	0	0	0	0	0	98
362502	0	0	0	0	0	109
362503	0	0	0	0	0	86
362504	4	3	38	0	45	152
362505	0	0	0	0	0	92
362508	1	9	13	0	23	101

362509	2	2	18	0	22	96
362512	23	11	40	0	74	194
362514	0	0	0	0	0	36
362516	0	3	2	0	5	60
362518	2	1	4	0	7	44
362519	0	0	0	0	0	69
362520	0	0	0	0	0	87
362521	0	0	0	0	0	75
362522	0	0	0	0	0	44
362523	0	0	0	0	0	88
362524	0	0	0	0	0	74
362526	0	7	26	0	33	33
362528	0	0	0	0	0	74
362529	0	1	11	0	12	12
362530	0	0	0	0	0	53
362531	1	0	10	0	11	62
362534	0	0	2	0	2	27
362537	0	0	0	0	0	76
362539	0	0	0	0	0	40
362541	0	7	22	0	29	29
362542	0	11	42	0	53	53
362543	0	6	18	0	24	93
362545	0	0	0	0	0	37
362547	1	1	12	0	14	90
362549	0	1	6	0	7	113
362551	0	1	5	0	6	51
362552	5	0	0	0	5	99
362553	0	0	0	0	0	219
362554	0	0	18	0	18	83
362556	0	5	9	0	14	14
362557	0	0	0	0	0	20
362558	0	0	0	0	0	102
362559	3	4	20	0	27	119
362560	7	0	0	0	7	87
362561	0	6	2	0	8	65
362562	0	2	18	0	20	86
362563	0	0	0	0	0	40
362564	0	0	0	0	0	19
362566	0	0	0	0	0	35
362567	0	0	0	0	0	91

362568	0	1	0	0	1	102
362569	0	0	0	0	0	227
362570	9	13	33	0	55	55
362571	0	0	0	0	0	36
362572	0	0	1	0	1	61
362575	0	0	0	0	0	0
362576	3	0	14	0	17	103
362577	0	0	0	0	0	214
362578	40	1	24	0	65	65
362579	0	5	6	0	11	77
362580	0	0	2	0	2	50
362581	0	0	0	0	0	42
362582	0	0	0	0	0	127
362583	0	0	0	0	0	41
362584	0	0	0	0	0	53
362585	0	0	0	0	0	73
362587	0	0	0	0	0	56
362589	0	0	0	0	0	53
362590	0	0	0	0	0	68
362591	0	0	0	0	0	95
362592	0	15	19	0	34	97
362594	0	1	16	0	17	70
362595	0	0	0	0	0	209
362597	0	3	10	0	13	47
362598	2	0	4	0	6	102
362599	0	0	0	0	0	39
362600	16	6	28	0	50	143
362602	0	0	0	0	0	41
362603	0	0	0	0	0	47
362604	0	0	0	0	0	87
362607	0	0	0	0	0	111
362608	0	1	8	0	9	9
362609	3	3	21	0	27	78
362610	0	0	0	0	0	32
362611	0	0	0	0	0	113
362612	0	0	0	0	0	64
362613	6	2	45	0	53	112
362614	1	0	5	0	6	38
362616	0	0	0	0	0	28
362617	2	0	7	0	9	68

362618	0	0	0	0	0	76
362619	0	0	0	0	0	111
362620	0	0	0	0	0	51
362621	0	0	0	0	0	54
362622	0	1	4	0	5	49
362623	0	0	0	0	0	81
362624	0	0	0	0	0	73
362625	0	3	13	0	16	93
362627	2	2	4	0	8	145
362628	0	0	0	0	0	76
362629	0	0	0	0	0	42
362630	3	2	4	0	9	50
362631	0	0	0	0	0	65
362632	0	0	0	0	0	49
362633	0	0	0	0	0	45
362634	0	9	21	0	30	30
362635	0	0	0	0	0	0
362636	0	0	0	0	0	77
362637	0	0	0	0	0	73
362638	0	0	0	0	0	17
362639	0	0	0	0	0	21
362640	0	0	0	0	0	67
362641	0	0	0	0	0	82
362642	0	0	0	0	0	29
362643	0	1	7	0	8	73
362644	0	0	7	0	7	57
362645	4	1	3	0	8	57
362646	4	0	5	0	9	59
362647	0	0	0	0	0	74
362648	0	5	17	0	22	71
362649	3	7	6	0	16	99
362650	0	0	0	0	0	57
362651	0	0	0	0	0	54
362652	0	0	0	0	0	36
362653	2	4	3	0	9	122
362654	0	0	0	0	0	31
362655	0	6	2	0	8	45
362656	3	6	35	0	44	129
362657	0	4	13	0	17	124
362659	0	0	0	0	0	29

362660	0	7	5	0	12	12
362661	0	0	0	0	0	76
362664	0	0	0	0	0	48
362665	3	1	7	0	11	57
362666	0	0	0	0	0	68
362667	0	0	0	0	0	0
362668	0	0	0	0	0	92
362669	0	0	3	0	3	87
362670	1	0	4	0	5	52
362671	2	1	8	1	12	47
362672	0	0	0	0	0	27
362674	0	0	0	0	0	24
362675	0	1	2	0	3	41
362677	1	6	6	0	13	65
362678	0	0	0	0	0	88
362679	0	0	16	0	16	113
362680	0	0	0	0	0	69
362681	0	0	0	0	0	43
362682	0	1	3	0	4	24
362683	0	0	0	0	0	25
362684	4	0	0	0	4	36
362685	0	0	10	0	10	57
362686	1	0	0	0	1	66
362687	19	7	65	0	91	91
362688	0	0	0	0	0	73
362689	0	5	21	0	26	26
362690	6	0	0	0	6	58
362691	2	2	13	0	17	115
362692	0	0	0	0	0	54
362693	0	0	4	0	4	40
362694	0	0	0	0	0	34
362696	0	1	0	0	1	82
362697	0	0	0	0	0	31
362698	0	0	0	0	0	37
362699	9	1	19	0	29	110
362700	4	0	0	0	4	42
362701	0	0	0	0	0	15
362702	0	9	28	0	37	37
362703	0	0	2	0	2	24
362704	4	0	11	0	15	98

362705	0	2	15	0	17	70
362706	0	1	8	0	9	61
362707	0	0	0	0	0	36
362708	0	0	0	0	0	72
362709	0	0	0	0	0	28
362710	0	0	0	0	0	60
362712	0	0	0	0	0	29
362713	0	3	10	0	13	36
362715	0	0	0	0	0	50
362716	0	0	0	0	0	26
362717	0	0	0	0	0	93
362719	0	0	0	0	0	71
362720	0	0	0	0	0	27
362721	29	3	25	0	57	57
362723	0	0	4	0	4	26
362724	0	0	0	0	0	20
362725	0	0	0	0	0	32
362727	7	0	0	0	7	7
362728	0	0	0	0	0	28
362729	0	0	4	0	4	26
362730	0	0	0	0	0	9
362731	1	4	7	0	12	47
362732	0	1	5	0	6	34
362733	0	4	14	0	18	110
362734	0	0	0	0	0	77
362735	0	0	0	0	0	48
362736	0	0	0	0	0	56
362737	0	0	19	0	19	40
362738	0	1	2	0	3	19
362739	0	0	0	0	0	44
362741	1	0	4	0	5	29
362742	0	0	0	0	0	94
362743	0	0	0	0	0	26
362744	0	0	14	0	14	93
362745	0	0	0	0	0	29
362746	0	5	18	0	23	128
362747	0	5	10	0	15	117
362748	0	0	0	0	0	44
362749	0	0	0	0	0	30
362750	0	1	2	0	3	13

362751	0	0	0	0	0	55
362752	0	1	1	0	2	99
362753	4	0	0	0	4	4
362754	0	0	0	0	0	70
362756	1	0	0	0	1	57
362757	0	0	0	0	0	48
362758	0	0	0	0	0	79
362759	0	1	5	0	6	58
362761	0	0	0	0	0	85
362762	0	0	0	0	0	15
362763	0	0	5	0	5	28
362765	1	2	11	0	14	72
362766	4	0	6	0	10	62
362767	2	13	21	0	36	36
362768	1	0	0	0	1	10
362770	0	0	0	0	0	48
362772	0	0	0	0	0	76
362773	0	0	0	0	0	49
362774	0	0	0	0	0	1
362775	1	0	14	0	15	55
362776	0	0	0	0	0	44
362777	0	0	7	0	7	35
362778	0	0	0	0	0	70
362779	0	0	6	0	6	59
362780	0	0	0	0	0	61
362781	0	0	0	0	0	31
362782	0	0	0	0	0	35
362783	0	0	6	0	6	86
362784	0	0	0	0	0	82
362785	0	3	7	0	10	50
362786	0	0	2	0	2	39
362787	0	3	12	0	15	15
362788	0	0	0	0	0	41
362789	0	0	0	0	0	46
362790	0	0	11	0	11	65
362791	2	0	9	0	11	46
362792	0	0	0	0	0	74
362793	0	0	0	0	0	26
362794	2	1	6	0	9	10
362795	0	0	0	0	0	67

362796	0	0	6	0	6	72
362797	0	3	6	0	9	40
362798	0	0	0	0	0	47
362799	1	0	2	0	3	25
362800	0	4	10	0	14	14
362801	3	0	8	0	11	11
362802	0	0	1	0	1	12
362803	0	0	0	0	0	70
362804	0	0	1	0	1	22
362805	1	1	4	0	6	23
362806	0	0	0	0	0	40
362807	0	0	0	0	0	23
362808	0	0	0	0	0	32
362809	6	0	6	0	12	50
362810	1	3	4	0	8	83
362811	0	0	0	0	0	90
362812	0	0	0	0	0	23
362813	0	0	0	0	0	73
362814	17	12	18	0	47	47
362815	1	1	10	0	12	52
362816	2	0	3	0	5	28
362817	0	0	1	0	1	17
362818	0	0	0	0	0	32
362819	0	0	0	0	0	19
362820	0	0	0	0	0	27
362821	0	0	0	0	0	22
362822	0	0	0	0	0	43
362823	0	0	0	0	0	11
362824	0	0	0	0	0	33
362825	0	0	1	0	1	14
362826	0	0	0	0	0	53
362827	0	0	0	0	0	36
362828	3	1	0	3	7	43
362829	0	0	0	0	0	29
362830	1	9	19	0	29	31
362831	0	0	0	0	0	83
362832	0	0	0	0	0	24
362833	1	0	4	0	5	25
362834	0	0	0	0	0	55
362835	3	0	3	0	6	6

362836	0	6	6	0	12	45
362837	0	0	0	0	0	26
362838	0	0	0	0	0	13
362839	2	1	4	0	7	39
362840	0	0	1	0	1	6
362841	0	0	0	0	0	19
362842	10	0	0	0	10	10
362843	0	0	0	0	0	18
362844	0	0	0	0	0	18
362845	0	0	0	0	0	20
362846	2	1	0	0	3	14
362847	0	1	4	0	5	12
362848	4	1	23	0	28	28
362849	0	0	0	0	0	2
362850	0	0	0	0	0	5
362851	2	1	5	0	8	10
363300	0	0	7	0	7	15
363300	0	0	0	0	0	0
363303	0	0	5	0	5	8
363304	0	0	4	0	4	13
363509	1	4	11	0	16	135
363511	0	0	0	0	0	29
363512	0	0	0	0	0	0
OH Total	328	335	1,460	4	2,127	17,942

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.

Table 4. In-Center Dialysis Patients in Network 9'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
Indiana				
150017	0	0	0	0
15003F	68	0	68	68
150056	0	0	0	0
150084	0	0	0	0
152500	117	0	117	144
152501	115	0	115	132
152502	163	0	163	163
152503	56	0	56	64
152504	109	0	109	127
152507	30	0	30	30
152509	128	0	128	157
152510	110	0	110	130
152511	33	0	33	41
152512	87	0	87	87
152514	18	0	18	18
152515	56	0	56	88
152516	94	0	94	108
152517	46	0	46	46
152518	55	0	55	68
152520	99	0	99	99
152521	155	0	155	165
152522	94	0	94	109
152523	56	0	56	69
152524	63	0	63	63
152525	91	0	91	139
152526	101	0	101	124
152527	31	0	31	34
152530	97	0	97	97
152531	41	0	41	41
152532	0	0	0	53
152534	33	0	33	33
152535	17	0	17	17
152536	94	0	94	94
152537	50	0	50	50
152538	37	0	37	37

152539	29	0	29	29
152541	87	0	87	118
152542	97	0	97	97
152543	105	0	105	105
152545	19	0	19	19
152546	61	0	61	77
152547	137	0	137	152
152549	103	0	103	107
152550	40	0	40	54
152551	31	0	31	31
152552	49	0	49	66
152553	46	0	46	46
152554	71	0	71	71
152556	51	0	51	83
152558	65	0	65	84
152560	84	0	84	84
152561	54	0	54	54
152562	39	0	39	39
152564	76	0	76	76
152565	26	0	26	26
152566	53	0	53	53
152567	45	0	45	45
152568	38	0	38	38
152569	92	0	92	159
152571	131	0	131	131
152572	47	0	47	54
152573	21	0	21	21
152574	29	0	29	29
152575	18	0	18	18
152576	68	0	68	68
152577	39	0	39	39
152579	67	0	67	95
152581	72	0	72	89
152582	25	0	25	25
152583	27	0	27	27
152584	45	0	45	45
152585	106	0	106	106
152586	50	0	50	50
152588	0	0	0	41
152589	20	0	20	20

152590	26	0	26	26
152591	76	0	76	76
152592	62	0	62	62
152593	101	0	101	101
152594	83	0	83	91
152595	38	0	38	69
152596	95	0	95	114
152597	0	0	0	51
152598	49	0	49	49
152599	44	0	44	57
152600	24	0	24	24
152601	82	0	82	111
152602	25	0	25	25
152603	30	0	30	37
152604	23	0	23	23
152605	47	0	47	47
152606	41	0	41	41
152607	85	0	85	104
152608	24	0	24	24
152609	42	0	42	42
152610	34	0	34	38
152611	49	0	49	49
152612	0	0	0	58
152613	11	0	11	11
152614	30	0	30	30
152615	11	0	11	21
152616	54	0	54	66
152617	30	0	30	39
152618	28	0	28	28
152619	26	0	26	26
152620	30	0	30	35
152621	7	0	7	7
152622	45	0	45	45
152623	60	0	60	67
152624	20	0	20	20
152625	42	0	42	42
152626	24	0	24	30
152627	17	0	17	19
152628	17	0	17	17
152629	39	0	39	39

152630	52	0	52	62
152631	55	0	55	55
152632	39	0	39	39
152634	48	0	48	59
152635	69	0	69	69
152636	26	0	26	26
152637	52	0	52	86
152638	33	0	33	40
152640	37	0	37	42
152641	32	0	32	32
152642	44	0	44	53
152643	49	0	49	49
152644	53	0	53	53
152645	52	0	52	64
152646	32	0	32	32
152647	106	0	106	106
152648	54	0	54	85
152649	0	0	0	48
152650	16	0	16	19
152651	27	0	27	36
152652	34	0	34	38
152653	110	0	110	110
152654	51	0	51	74
152655	43	0	43	62
152656	22	0	22	22
152657	59	0	59	76
152658	55	0	55	55
152659	29	0	29	29
152660	46	0	46	46
152661	65	0	65	67
152662	0	0	0	12
152663	6	0	6	7
152664	36	0	36	39
152665	10	0	10	13
152666	22	0	22	22
152667	34	0	34	34
152668	35	0	35	47
152669	20	0	20	20
152670	34	0	34	37
152671	53	0	53	59

152672	53	0	53	66
152673	24	0	24	25
152674	2	0	2	3
152675	34	0	34	51
152676	11	0	11	12
152677	4	0	4	4
153510	119	0	119	119
153515	60	0	60	60
153521	0	0	0	104
153522	8	0	8	25
IN Total	8,133	0	8,133	9,520
Kentucky				
180017	63	0	63	63
180040	0	0	0	0
18005F	24	0	24	24
180067	0	0	0	0
180067	3	0	3	7
180088	0	0	0	0
182501	92	1	93	117
182502	34	0	34	35
182503	58	0	58	58
182504	38	0	38	76
182505	101	0	101	120
182507	32	0	32	47
182508	64	0	64	67
182509	51	0	51	61
182512	52	0	52	52
182513	70	0	70	79
182514	62	0	62	62
182516	88	0	88	102
182517	102	0	102	114
182518	35	0	35	45
182519	60	0	60	69
182521	78	0	78	78
182523	100	0	100	100
182524	34	0	34	44
182526	50	0	50	50
182527	59	0	59	59
182529	62	0	62	62
182530	50	0	50	50

182532	67	0	67	79
182533	37	0	37	38
182534	94	0	94	94
182535	73	0	73	73
182536	46	0	46	46
182537	53	0	53	53
182538	29	0	29	31
182540	41	0	41	58
182541	29	0	29	33
182542	46	0	46	46
182543	92	0	92	92
182544	69	0	69	69
182547	79	0	79	84
182548	33	0	33	35
182549	45	0	45	45
182550	58	0	58	65
182551	16	0	16	16
182552	68	0	68	103
182553	49	0	49	49
182554	52	0	52	52
182555	47	0	47	47
182556	69	0	69	69
182558	62	0	62	62
182559	53	0	53	53
182560	41	0	41	41
182561	24	0	24	24
182562	25	0	25	25
182563	49	0	49	49
182565	31	1	32	36
182566	33	0	33	35
182567	76	0	76	76
182568	18	0	18	18
182569	0	0	0	42
182570	50	0	50	50
182572	27	0	27	27
182573	29	0	29	33
182574	36	0	36	36
182575	22	0	22	22
182576	26	0	26	26
182577	26	0	26	26

182578	28	0	28	28
182580	37	0	37	45
182581	91	0	91	105
182582	73	0	73	73
182583	28	0	28	28
182584	35	0	35	35
182586	0	0	0	79
182587	47	0	47	54
182588	32	0	32	32
182589	44	0	44	59
182590	51	0	51	51
182591	48	0	48	82
182592	41	0	41	41
182594	33	0	33	43
182595	42	0	42	42
182596	39	0	39	39
182597	56	0	56	64
182598	33	0	33	40
182599	45	0	45	56
182600	23	0	23	23
182601	48	0	48	63
182602	41	0	41	55
182603	37	0	37	37
182604	46	0	46	46
182605	40	0	40	41
182606	28	0	28	28
182607	38	0	38	41
182608	18	0	18	18
182609	53	0	53	73
182610	37	0	37	37
182611	57	0	57	57
182612	69	0	69	105
182613	0	0	0	43
182614	32	0	32	32
182615	60	0	60	72
182616	20	0	20	21
182617	0	0	0	3
182618	50	0	50	50
182619	41	0	41	52
182620	25	0	25	27

182621	64	0	64	76
182622	31	0	31	31
182623	70	0	70	70
182624	63	0	63	63
182625	42	0	42	60
182626	0	0	0	23
182627	0	0	0	56
182628	36	0	36	36
182629	24	0	24	24
182630	16	0	16	16
182631	16	0	16	18
KY Total	5,210	2	5,212	5,992
Ohio				
360003	0	0	0	0
360009	48	0	48	69
360024	85	0	85	86
36003F	23	0	23	25
360048	0	0	0	0
360048	6	0	6	6
36004F	74	0	74	74
360066	0	0	0	0
360068	12	0	12	12
36007F	45	0	45	47
360085	0	0	0	0
360099	29	0	29	29
360112	15	0	15	15
360137	0	0	0	0
360137	40	0	40	61
360163	0	0	0	0
360180	0	0	0	0
360229	6	0	6	12
360229	0	0	0	0
362500	293	0	293	293
362501	98	0	98	98
362502	109	0	109	109
362503	86	0	86	86
362504	107	0	107	152
362505	92	0	92	92
362508	78	0	78	101
362509	74	0	74	96

362512	120	0	120	194
362514	36	0	36	36
362516	55	0	55	60
362518	37	0	37	44
362519	69	0	69	69
362520	86	1	87	87
362521	75	0	75	75
362522	44	0	44	44
362523	88	0	88	88
362524	74	0	74	74
362526	0	0	0	33
362528	74	0	74	74
362529	0	0	0	12
362530	53	0	53	53
362531	51	0	51	62
362534	25	0	25	27
362537	76	0	76	76
362539	40	0	40	40
362541	0	0	0	29
362542	0	0	0	53
362543	68	1	69	93
362545	37	0	37	37
362547	76	0	76	90
362549	106	0	106	113
362551	45	0	45	51
362552	94	0	94	99
362553	219	0	219	219
362554	65	0	65	83
362556	0	0	0	14
362557	20	0	20	20
362558	102	0	102	102
362559	92	0	92	119
362560	79	1	80	87
362561	57	0	57	65
362562	66	0	66	86
362563	40	0	40	40
362564	19	0	19	19
362566	35	0	35	35
362567	91	0	91	91
362568	101	0	101	102

362569	227	0	227	227
362570	0	0	0	55
362571	36	0	36	36
362572	60	0	60	61
362575	0	0	0	0
362576	86	0	86	103
362577	214	0	214	214
362578	0	0	0	65
362579	66	0	66	77
362580	48	0	48	50
362581	42	0	42	42
362582	127	0	127	127
362583	41	0	41	41
362584	53	0	53	53
362585	73	0	73	73
362587	56	0	56	56
362589	53	0	53	53
362590	68	0	68	68
362591	95	0	95	95
362592	63	0	63	97
362594	53	0	53	70
362595	209	0	209	209
362597	34	0	34	47
362598	96	0	96	102
362599	39	0	39	39
362600	93	0	93	143
362602	41	0	41	41
362603	47	0	47	47
362604	87	0	87	87
362607	111	0	111	111
362608	0	0	0	9
362609	51	0	51	78
362610	32	0	32	32
362611	113	0	113	113
362612	64	0	64	64
362613	59	0	59	112
362614	32	0	32	38
362616	28	0	28	28
362617	59	0	59	68
362618	76	0	76	76

362619	111	0	111	111
362620	51	0	51	51
362621	54	0	54	54
362622	44	0	44	49
362623	81	0	81	81
362624	73	0	73	73
362625	77	0	77	93
362627	137	0	137	145
362628	76	0	76	76
362629	42	0	42	42
362630	41	0	41	50
362631	65	0	65	65
362632	49	0	49	49
362633	45	0	45	45
362634	0	0	0	30
362635	0	0	0	0
362636	77	0	77	77
362637	73	0	73	73
362638	17	0	17	17
362639	21	0	21	21
362640	67	0	67	67
362641	82	0	82	82
362642	29	0	29	29
362643	65	0	65	73
362644	50	0	50	57
362645	49	0	49	57
362646	50	0	50	59
362647	74	0	74	74
362648	49	0	49	71
362649	83	0	83	99
362650	57	0	57	57
362651	54	0	54	54
362652	36	0	36	36
362653	113	0	113	122
362654	31	0	31	31
362655	37	0	37	45
362656	85	0	85	129
362657	107	0	107	124
362659	29	0	29	29
362660	0	0	0	12

362661	76	0	76	76
362664	48	0	48	48
362665	46	0	46	57
362666	68	0	68	68
362667	0	0	0	0
362668	92	0	92	92
362669	84	0	84	87
362670	47	0	47	52
362671	35	0	35	47
362672	27	0	27	27
362674	24	0	24	24
362675	38	0	38	41
362677	52	0	52	65
362678	88	0	88	88
362679	97	0	97	113
362680	69	0	69	69
362681	43	0	43	43
362682	20	0	20	24
362683	25	0	25	25
362684	32	0	32	36
362685	47	0	47	57
362686	65	0	65	66
362687	0	0	0	91
362688	73	0	73	73
362689	0	0	0	26
362690	52	0	52	58
362691	98	0	98	115
362692	54	0	54	54
362693	36	0	36	40
362694	34	0	34	34
362696	81	0	81	82
362697	31	0	31	31
362698	37	0	37	37
362699	81	0	81	110
362700	38	0	38	42
362701	15	0	15	15
362702	0	0	0	37
362703	22	0	22	24
362704	83	0	83	98
362705	53	0	53	70

362706	52	0	52	61
362707	36	0	36	36
362708	72	0	72	72
362709	28	0	28	28
362710	60	0	60	60
362712	29	0	29	29
362713	23	0	23	36
362715	50	0	50	50
362716	26	0	26	26
362717	93	0	93	93
362719	71	0	71	71
362720	27	0	27	27
362721	0	0	0	57
362723	22	0	22	26
362724	20	0	20	20
362725	32	0	32	32
362727	0	0	0	7
362728	28	0	28	28
362729	22	0	22	26
362730	9	0	9	9
362731	35	0	35	47
362732	28	0	28	34
362733	92	0	92	110
362734	77	0	77	77
362735	48	0	48	48
362736	56	0	56	56
362737	21	0	21	40
362738	16	0	16	19
362739	44	0	44	44
362741	24	0	24	29
362742	94	0	94	94
362743	26	0	26	26
362744	79	0	79	93
362745	29	0	29	29
362746	105	0	105	128
362747	102	0	102	117
362748	44	0	44	44
362749	30	0	30	30
362750	10	0	10	13
362751	55	0	55	55

362752	97	0	97	99
362753	0	0	0	4
362754	70	0	70	70
362756	56	0	56	57
362757	48	0	48	48
362758	79	0	79	79
362759	52	0	52	58
362761	85	0	85	85
362762	15	0	15	15
362763	23	0	23	28
362765	58	0	58	72
362766	52	0	52	62
362767	0	0	0	36
362768	9	0	9	10
362770	48	0	48	48
362772	76	0	76	76
362773	49	0	49	49
362774	1	0	1	1
362775	40	0	40	55
362776	44	0	44	44
362777	28	0	28	35
362778	70	0	70	70
362779	53	0	53	59
362780	61	0	61	61
362781	31	0	31	31
362782	35	0	35	35
362783	80	0	80	86
362784	82	0	82	82
362785	40	0	40	50
362786	37	0	37	39
362787	0	0	0	15
362788	41	0	41	41
362789	46	0	46	46
362790	54	0	54	65
362791	35	0	35	46
362792	74	0	74	74
362793	26	0	26	26
362794	1	0	1	10
362795	67	0	67	67
362796	66	0	66	72

362797	31	0	31	40
362798	47	0	47	47
362799	22	0	22	25
362800	0	0	0	14
362801	0	0	0	11
362802	11	0	11	12
362803	70	0	70	70
362804	21	0	21	22
362805	17	0	17	23
362806	40	0	40	40
362807	23	0	23	23
362808	32	0	32	32
362809	38	0	38	50
362810	75	0	75	83
362811	90	0	90	90
362812	23	0	23	23
362813	73	0	73	73
362814	0	0	0	47
362815	40	0	40	52
362816	23	0	23	28
362817	16	0	16	17
362818	32	0	32	32
362819	19	0	19	19
362820	27	0	27	27
362821	22	0	22	22
362822	43	0	43	43
362823	11	0	11	11
362824	33	0	33	33
362825	13	0	13	14
362826	53	0	53	53
362827	36	0	36	36
362828	36	0	36	43
362829	29	0	29	29
362830	2	0	2	31
362831	83	0	83	83
362832	24	0	24	24
362833	20	0	20	25
362834	55	0	55	55
362835	0	0	0	6
362836	33	0	33	45

362837	26	0	26	26
362838	13	0	13	13
362839	32	0	32	39
362840	5	0	5	6
362841	19	0	19	19
362842	0	0	0	10
362843	18	0	18	18
362844	18	0	18	18
362845	20	0	20	20
362846	11	0	11	14
362847	7	0	7	12
362848	0	0	0	28
362849	2	0	2	2
362850	5	0	5	5
362851	2	0	2	10
363300	8	0	8	15
363300	0	0	0	0
363303	3	0	3	8
363304	9	0	9	13
363509	119	0	119	135
363511	29	0	29	29
363512	0	0	0	0
OH Total	15,812	3	15,815	17,942

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.

Table 5. Number of Transplants Performed in Network 9's Service Area, by Transplant Center and Donor Type and Number of Patients on Transplant Waiting List* in Network 9's Service Area, by Transplant Center (January 1, 2016 - December 31, 2016)

Transplant Center CCN	Deceased Donor	Living Related Donor	Living Unrelated Donor	Unknown Donor Type	Total Transplants Performed	Patients on Transplant Waiting List
Kentucky						
180040	55	5	12	0	72	309
180067	65	12	8	0	85	468
180088	3	1	0	0	4	4
KY Total	123	18	20	0	161	781
Indiana						
150017	15	3	11	0	29	150
150056	153	28	38	0	219	826
150084	42	7	7	0	56	56
IN Total	210	38	56	0	304	1,032
Ohio						
360003	56	20	20	0	96	218
360048	59	10	4	0	73	157
360085	143	30	53	0	226	654
360137	60	6	8	0	74	552
360163	19	11	22	0	52	120
360180	100	28	34	0	162	632
360229	3	4	0	0	7	7
363300	11	6	2	0	19	31
OH Total	451	115	143	0	709	2,371

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.

Table 6. Renal Transplant* Recipients in Network 9's Service Area, by Patient Characteristics (January 1, 2016 - December 31, 2016)

Network 9's Service Area	Transplant Recipients	Percent
Age Group		
<= 4 Years	11	0.9%
5-9 Years	4	0.3%
10-14 Years	13	1.1%
15-19 Years	16	1.4%
20-24 Years	30	2.6%
25-29 Years	61	5.2%
30-34 Years	72	6.1%
35-39 Years	90	7.7%
40-44 Years	128	10.9%
45-49 Years	123	10.5%
50-54 Years	129	11.0%
55-59 Years	162	13.8%
60-64 Years	139	11.8%
65-69 Years	137	11.7%
70-74 Years	51	4.3%
75-79 Years	7	0.6%
80-84 Years	0	0.0%
>= 85 Years	0	0.0%
Network-Level Total	1,173	100.0%
Median Age	51	
Gender		
Female	466	39.7%
Male	707	60.3%
Network-Level Total	1,173	100.0%
Ethnicity*		
Hispanic or Latino	40	3.4%
Not Hispanic or Latino	1,115	95.1%
Not Specified	18	1.5%
Network-Level Total	1,173	100.0%
Race*		
American Indian/Alaska Native	2	0.2%
Asian	20	1.7%
Black or African American	254	21.7%
Native Hawaiian or Other Pacific Islander	6	0.5%
White	873	74.4%
More Than One Race Reported	0	0.0%
Not Specified	18	1.5%
Network-Level Total	1,173	100.0%
Primary Cause of ESRD**		
Diabetes	311	26.5%
Glomerulonephritis	180	15.3%
Secondary Glomerulonephritis/Vasculitis	43	3.7%
Interstitial Nephritis/Pyelonephritis	43	3.7%

Transplant Complications	4	0.3%
Hypertension/Large Vessel Disease	212	18.1%
Cystic/Hereditary/Congenital/Other Diseases	166	14.2%
Neoplasms/Tumors	71	6.1%
Disorders of Mineral Metabolism	0	0.0%
Genitourinary System	1	0.1%
Acute Kidney Failure	8	0.7%
Miscellaneous Conditions	94	8.0%
Not Specified	40	3.4%
Network-Level Total	1,173	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.

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

Table 7. Deaths Among Dialysis Patients in Network 9's Service Area, by Patient Characteristics (January 1, 2016 - December 31, 2016)

Network 9's Service Area	Number	Percent
Age Group		
<= 4 Years	3	0.0%
5-9 Years	0	0.0%
10-14 Years	0	0.0%
15-19 Years	1	0.0%
20-24 Years	10	0.1%
25-29 Years	38	0.5%
30-34 Years	44	0.6%
35-39 Years	90	1.3%
40-44 Years	139	1.9%
45-49 Years	259	3.6%
50-54 Years	394	5.5%
55-59 Years	565	7.9%
60-64 Years	786	11.0%
65-69 Years	1,055	14.8%
70-74 Years	1,043	14.6%
75-79 Years	1,053	14.8%
80-84 Years	886	12.4%
>= 85 Years	763	10.7%
Network-Level Total	7,129	100.0%
Median Age	70	
Gender		
Female	3,115	43.7%
Male	4,014	56.3%
Network-Level Total	7,129	100.0%
Ethnicity*		
Hispanic or Latino	133	1.9%
Not Hispanic or Latino	6,990	98.1%
Not Specified	6	0.1%
Network-Level Total	7,129	100.0%
Race*		
American Indian/Alaska Native	4	0.1%
Asian	37	0.5%
Black or African American	1,555	21.8%
Native Hawaiian or Other Pacific Islander	9	0.1%
White	5,510	77.3%
More Than One Race Reported	9	0.1%
Not Specified	5	0.1%
Network-Level Total	7,129	100.0%
Primary Cause of ESRD*		
Diabetes	3,453	48.4%
Glomerulonephritis	366	5.1%
Secondary Glomerulonephritis/Vasculitis	91	1.3%
Interstitial Nephritis/Pyelonephritis	177	2.5%

Transplant Complications	6	0.1%
Hypertension/Large Vessel Disease	1,844	25.9%
Cystic/Hereditary/Congenital/Other Diseases	137	1.9%
Neoplasms/Tumors	231	3.2%
Disorders of Mineral Metabolism	0	0.0%
Genitourinary System	4	0.1%
Acute Kidney Failure	88	1.2%
Miscellaneous Conditions	661	9.3%
Not Specified	71	1.0%
Network-Level Total	7,129	100.0%
Primary Cause of Death**		
Cardiac	2,380	33.4%
Endocrine	1	0.0%
Gastrointestinal	39	0.5%
Infection	432	6.1%
Liver Disease	48	0.7%
Metabolic	22	0.3%
Vascular	214	3.0%
Other	1,514	21.2%
Unknown	1,915	26.9%
Not Specified	564	7.9%
Network-Level Total	7,129	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.

Table 8A. Vocational Rehabilitation Status, Employment Status, and School Attendance of Prevalent Dialysis Patients Age 18–54 Years by Facility in Network 9’s Service Area (as of December 15, 2016)

Facility CCN	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
Kentucky					
180017	11	0	0	0	0
18005F	2	0	0	0	0
180067	1	0	0	0	0
182501	51	0	1	14	1
182502	3	0	0	0	0
182503	24	0	0	4	0
182504	27	0	0	4	0
182505	38	0	0	6	0
182507	12	0	0	0	0
182508	17	0	0	1	1
182509	11	0	0	0	0
182512	13	0	0	1	0
182513	16	0	1	2	0
182514	17	0	0	2	0
182516	31	0	0	4	0
182517	22	0	0	1	0
182518	12	0	0	0	0
182519	25	0	0	3	0
182521	38	0	0	13	0
182523	27	0	0	10	0
182524	10	0	0	0	0
182526	14	0	0	0	0
182527	14	0	0	6	0
182529	12	0	0	4	0
182530	11	1	0	5	1
182532	29	0	0	4	0
182533	12	0	0	1	0
182534	18	0	0	6	0
182535	16	0	0	5	0
182536	8	0	0	0	0
182537	22	0	0	4	0
182538	10	0	0	0	0
182540	18	0	0	2	0
182541	8	0	0	0	0
182542	11	0	0	3	0
182543	15	0	0	3	0
182544	17	0	0	3	0
182547	22	0	0	3	0
182548	10	0	0	0	0
182549	15	0	0	1	0
182550	10	0	0	0	0

182551	5	0	0	0	0
182552	37	0	0	8	0
182553	14	0	0	3	0
182554	14	1	0	0	0
182555	6	0	0	0	0
182556	17	0	0	1	0
182558	24	0	0	2	0
182559	15	0	0	2	0
182560	7	0	0	0	0
182561	3	0	0	1	0
182562	6	0	0	0	0
182563	15	0	0	1	0
182565	6	0	0	0	0
182566	11	0	0	0	0
182567	22	0	0	6	0
182568	4	0	0	0	0
182569	18	0	0	6	0
182570	11	0	0	0	0
182572	6	0	0	3	0
182573	10	0	0	0	0
182574	6	0	0	1	0
182575	3	0	0	1	0
182576	5	0	0	1	0
182577	7	0	0	0	0
182578	12	0	0	1	0
182580	10	0	0	1	0
182581	29	0	0	4	0
182582	28	0	0	7	0
182583	3	0	0	1	0
182584	11	0	0	3	0
182586	29	0	0	10	0
182587	19	1	1	4	0
182588	6	0	0	1	0
182589	17	0	0	2	0
182590	6	0	0	3	0
182591	20	0	0	6	1
182592	6	0	0	0	0
182594	11	0	0	0	0
182595	17	0	0	3	0
182596	10	0	0	2	0
182597	16	0	0	4	0
182598	11	0	0	1	0
182599	14	0	0	2	0
182600	7	0	0	1	0
182601	28	0	0	7	0
182602	16	0	0	3	0
182603	12	0	0	2	0

182604	15	0	0	1	0
182605	8	0	0	3	0
182606	7	0	0	0	0
182607	11	0	0	2	0
182608	4	0	0	0	0
182609	20	0	0	4	0
182610	2	0	0	0	0
182611	15	0	0	4	0
182612	44	1	0	11	0
182613	26	0	0	14	0
182614	6	0	0	1	0
182615	23	0	1	5	1
182616	3	0	0	0	0
182617	2	0	0	0	0
182618	11	0	0	2	0
182619	20	0	0	1	0
182620	9	0	0	1	0
182621	22	0	0	3	0
182622	7	0	0	0	0
182623	17	0	0	7	1
182624	31	0	0	5	0
182625	24	1	0	4	0
182626	10	0	0	2	0
182627	16	0	0	4	0
182628	7	0	0	0	1
182629	8	0	0	1	0
182630	4	0	0	0	0
182631	6	0	0	1	0
KY Total	1,688	5	4	295	7
Indiana					
15003F	9	0	0	1	0
152500	45	0	0	14	0
152501	41	1	0	6	0
152502	50	0	0	13	0
152503	22	0	0	4	0
152504	38	0	0	9	1
152507	5	0	0	2	0
152509	36	0	0	7	0
152510	30	0	0	11	0
152511	3	0	0	0	0
152512	31	1	0	3	0
152514	5	0	0	0	0
152515	25	0	0	7	0
152516	23	0	0	3	0
152517	15	0	0	3	0
152518	22	0	0	6	0
152520	28	0	0	6	0

152521	57	0	0	5	0
152522	34	1	0	5	0
152523	12	1	0	4	0
152524	23	7	2	9	3
152525	46	0	0	19	0
152526	19	0	0	4	0
152527	8	1	0	1	0
152530	42	0	0	11	0
152531	15	2	0	0	1
152532	10	0	0	3	0
152534	7	0	0	1	0
152535	4	0	0	0	0
152536	34	0	0	8	0
152537	8	0	0	2	0
152538	6	0	0	0	0
152539	5	0	0	2	0
152541	27	0	0	9	0
152542	27	0	0	6	0
152543	32	5	1	7	1
152545	6	0	0	2	0
152546	30	0	0	7	0
152547	66	0	0	5	0
152549	21	0	0	2	0
152550	12	0	0	2	0
152551	10	0	0	0	0
152552	14	0	0	5	0
152553	8	0	0	2	0
152554	23	0	0	4	0
152556	18	0	0	9	1
152558	16	0	0	3	0
152560	31	0	0	3	1
152561	23	0	0	3	0
152562	8	0	0	2	0
152564	16	0	0	4	0
152565	7	0	0	1	0
152566	11	0	0	4	0
152567	15	0	0	2	0
152568	8	0	0	2	0
152569	45	0	0	12	0
152571	34	0	0	4	0
152572	10	2	2	0	2
152573	5	0	0	0	0
152574	6	0	0	1	0
152575	8	0	0	0	0
152576	17	0	0	6	0
152577	8	0	0	2	0
152579	25	0	0	5	0

152581	25	0	0	4	1
152582	6	0	0	0	0
152583	6	0	0	1	0
152584	8	0	0	2	0
152585	25	0	0	10	0
152586	8	0	0	1	0
152588	12	0	0	3	0
152589	6	0	0	2	0
152590	4	0	0	1	0
152591	13	0	0	4	0
152592	15	0	0	1	0
152593	29	0	0	8	1
152594	18	0	0	2	0
152595	14	0	0	2	0
152596	42	6	1	12	0
152597	19	0	0	10	1
152598	10	0	0	1	0
152599	9	0	0	2	0
152600	4	0	0	2	0
152601	43	0	0	12	1
152602	5	0	0	2	0
152603	6	0	0	0	0
152604	4	0	0	1	0
152605	11	0	0	0	0
152606	3	0	0	0	0
152607	23	0	0	7	0
152608	2	0	0	0	0
152609	9	0	0	4	0
152610	7	0	0	1	0
152611	9	0	0	2	0
152612	24	0	0	11	1
152613	3	0	0	0	0
152614	6	0	0	0	0
152615	11	0	0	1	0
152616	18	0	0	2	0
152617	21	0	0	3	0
152618	2	0	0	0	0
152619	9	0	0	3	0
152620	19	0	0	6	0
152621	1	0	0	0	0
152622	11	0	0	1	0
152623	15	0	0	6	0
152624	6	0	0	0	0
152625	9	0	0	0	0
152626	3	0	0	1	0
152627	7	0	0	4	0
152628	5	0	0	1	0

152629	7	0	0	2	0
152630	20	1	0	3	0
152631	9	0	0	5	0
152632	11	0	0	1	0
152634	13	0	0	5	0
152635	13	0	0	4	0
152636	9	0	0	3	0
152637	19	0	0	9	0
152638	14	0	0	2	0
152640	11	0	0	4	0
152642	6	0	0	1	1
152643	15	0	0	7	0
152644	11	0	0	1	0
152645	11	0	0	0	0
152646	12	0	0	2	0
152647	40	0	0	7	0
152648	28	0	0	5	1
152649	14	0	0	2	0
152650	2	0	0	0	0
152651	11	0	0	3	1
152652	5	0	0	0	0
152653	24	0	0	4	0
152654	18	0	0	5	0
152655	19	0	0	6	0
152656	3	0	0	0	0
152657	20	0	0	5	0
152658	25	0	0	6	0
152659	8	0	0	2	0
152660	16	0	2	3	1
152661	29	0	0	5	0
152662	5	0	0	1	0
152663	3	0	0	0	0
152664	15	0	0	1	0
152665	6	0	0	1	0
152666	4	0	0	1	0
152667	5	0	0	1	0
152668	18	0	0	5	0
152669	4	0	0	1	0
152670	7	0	0	3	0
152671	18	0	0	6	1
152672	17	0	0	3	0
152673	6	0	0	1	0
152675	14	0	0	6	0
152676	5	0	0	2	0
152677	2	0	0	1	0
153510	56	0	1	8	0
153515	30	0	0	3	0

153521	48	0	0	9	0
153522	1	0	0	0	0
IN Total	2,617	28	9	574	20
Ohio					
360009	15	0	0	3	0
360024	17	0	0	5	0
360048	4	0	0	0	0
36004F	6	0	0	1	0
360068	4	0	0	1	0
36007F	6	0	0	1	0
360099	6	0	0	2	0
360112	5	0	0	0	0
360137	38	1	0	13	2
360229	3	0	0	0	0
362500	88	2	1	17	0
362501	53	0	0	9	0
362502	39	0	0	4	0
362503	25	0	0	2	0
362504	59	0	0	14	0
362505	28	1	0	8	0
362508	21	0	1	4	0
362509	26	19	0	5	0
362512	44	1	0	12	0
362514	9	0	0	1	0
362516	11	0	0	0	0
362518	7	0	0	2	0
362519	19	0	0	5	0
362520	26	0	1	9	0
362521	16	0	0	5	0
362522	8	0	0	3	0
362523	18	0	0	3	0
362524	26	0	0	2	0
362526	8	0	0	5	0
362528	17	0	0	2	0
362529	3	0	0	2	0
362530	22	0	0	4	0
362531	23	0	0	6	0
362534	6	0	0	2	0
362537	11	0	0	2	0
362539	13	0	0	4	0
362541	9	0	0	3	0
362542	16	0	1	4	1
362543	36	3	0	9	0
362545	13	1	0	5	0
362547	21	0	0	5	0
362549	32	0	0	10	0
362551	5	0	0	0	0

362552	36	0	0	4	0
362553	61	1	0	15	0
362554	20	1	0	1	0
362556	6	0	0	3	0
362557	4	0	0	0	0
362558	26	0	0	6	0
362559	45	0	0	9	1
362560	37	3	0	3	0
362561	19	0	0	8	0
362562	14	0	0	3	0
362563	7	0	0	2	0
362564	5	0	0	1	0
362566	8	0	0	0	0
362567	39	0	0	13	0
362568	44	0	0	15	0
362569	74	0	0	19	0
362570	19	1	0	7	0
362571	3	0	0	0	0
362572	11	0	1	4	0
362576	30	0	0	11	0
362577	61	0	0	13	2
362578	16	0	0	4	0
362579	15	0	0	3	0
362580	6	0	0	0	0
362581	10	0	0	2	0
362582	28	0	0	7	0
362583	9	0	0	1	0
362584	13	0	0	0	0
362585	15	0	0	0	1
362587	17	8	1	3	1
362589	7	0	0	3	0
362590	23	0	1	4	0
362591	38	0	0	4	0
362592	24	0	0	9	0
362594	18	2	0	6	0
362595	82	0	0	12	0
362597	9	0	0	0	0
362598	38	0	0	13	0
362599	14	0	0	1	0
362600	48	1	3	12	3
362602	8	0	0	3	0
362603	6	0	0	1	0
362604	23	0	0	1	0
362607	27	0	0	0	0
362608	4	0	0	1	0
362609	25	0	0	11	0
362610	8	1	0	0	0

362611	29	0	0	8	0
362612	19	0	0	2	0
362613	40	0	1	15	2
362614	9	0	0	3	0
362617	14	0	1	6	0
362618	20	0	0	4	0
362619	22	0	0	6	0
362620	8	2	0	2	0
362621	16	0	0	1	0
362622	14	0	0	4	0
362623	19	0	0	7	0
362624	11	0	0	2	0
362625	37	0	0	6	0
362627	64	0	0	9	0
362628	18	0	0	7	1
362629	15	0	0	5	0
362630	16	0	1	5	1
362631	10	0	0	2	0
362632	5	0	0	0	0
362633	5	0	0	1	0
362634	13	0	0	4	0
362636	17	0	0	2	0
362637	20	0	0	5	0
362638	5	0	0	0	0
362639	1	0	0	0	0
362640	19	0	0	4	0
362641	14	0	0	3	0
362642	4	0	0	0	0
362643	12	0	0	3	0
362644	11	0	0	4	0
362645	14	0	0	4	0
362646	7	0	0	4	0
362647	19	0	0	0	0
362648	17	0	0	8	0
362649	40	1	0	4	0
362650	21	0	0	0	0
362651	14	3	0	2	0
362652	10	0	0	3	0
362653	46	1	0	12	0
362654	4	0	0	1	0
362655	18	1	1	3	0
362656	30	0	0	3	1
362657	27	0	0	5	0
362659	6	0	0	1	0
362660	7	0	0	1	1
362661	18	0	0	3	0
362664	14	0	0	2	0

362665	15	0	0	3	0
362666	14	0	0	6	1
362668	21	0	0	3	0
362669	16	0	2	2	0
362670	11	0	0	2	0
362671	14	0	0	1	0
362672	8	0	0	1	0
362674	6	0	0	1	0
362675	14	0	0	3	0
362677	14	0	0	3	0
362678	25	0	0	3	0
362679	25	1	0	1	0
362680	11	0	0	0	0
362681	19	0	2	1	2
362682	4	0	0	1	0
362683	2	0	0	1	0
362684	4	0	0	1	0
362685	12	0	0	0	0
362686	17	1	0	1	0
362687	25	0	0	15	0
362688	12	0	0	2	0
362689	6	0	0	3	0
362690	13	0	0	2	0
362691	34	0	0	5	0
362692	11	0	0	0	0
362693	7	0	0	1	0
362694	7	0	0	0	0
362696	11	0	0	4	0
362697	5	0	0	0	0
362698	9	0	0	2	0
362699	28	2	0	5	0
362700	13	0	0	6	0
362701	4	0	0	0	0
362702	13	0	0	7	0
362703	7	0	0	0	0
362704	21	0	0	9	1
362705	24	0	0	7	0
362706	11	0	1	4	0
362707	9	0	0	2	0
362708	22	0	0	7	0
362709	3	0	0	2	0
362710	3	0	0	0	0
362712	9	1	0	0	0
362713	15	0	0	3	0
362715	12	0	0	4	0
362716	11	0	0	4	0
362717	19	0	0	7	0

362719	25	0	1	4	2
362720	4	0	0	1	0
362721	17	0	0	3	1
362723	8	0	0	1	0
362724	4	0	0	1	0
362725	4	0	0	1	0
362727	5	0	0	1	0
362728	5	0	0	0	0
362729	10	0	0	1	0
362730	3	0	0	1	0
362731	16	0	0	5	0
362732	7	0	1	0	0
362733	24	0	0	2	0
362734	26	0	0	4	0
362735	10	0	0	1	0
362736	7	0	0	1	0
362737	7	0	1	2	1
362738	6	0	0	2	0
362739	10	0	0	0	0
362741	3	0	1	1	1
362742	21	0	0	8	0
362743	5	0	0	0	0
362744	22	0	1	5	0
362745	4	0	0	0	0
362746	37	0	0	13	0
362747	27	1	0	8	0
362748	16	0	0	2	0
362749	2	0	0	1	0
362750	3	0	0	2	0
362751	10	0	0	3	0
362752	21	0	1	2	0
362753	2	1	1	1	1
362754	15	0	0	1	0
362756	19	0	1	1	0
362757	10	0	0	3	0
362758	5	0	0	0	0
362759	22	1	0	6	1
362761	14	0	0	2	0
362762	5	1	0	0	0
362763	3	0	0	0	0
362765	15	0	0	5	0
362766	22	0	0	0	0
362767	13	0	0	3	0
362768	2	0	0	1	0
362770	8	0	0	0	0
362772	12	0	0	0	0
362773	14	0	0	3	1

362775	5	0	0	2	0
362776	4	0	0	1	0
362777	8	0	0	1	0
362778	7	1	0	1	0
362779	17	0	0	5	0
362780	20	0	0	2	0
362781	8	0	0	0	0
362782	4	0	0	0	0
362783	27	0	0	12	0
362784	27	0	0	6	0
362785	9	1	0	2	0
362786	12	1	1	1	1
362787	4	0	0	1	0
362788	13	0	0	0	0
362789	10	0	1	2	0
362790	11	0	0	0	0
362791	19	0	0	5	0
362792	18	0	1	3	1
362793	4	0	0	0	0
362794	4	0	0	0	0
362795	22	0	0	4	0
362796	17	0	0	2	0
362797	13	0	0	6	0
362798	9	0	0	2	0
362799	6	0	0	1	0
362800	6	0	0	2	0
362801	2	0	0	1	0
362802	2	0	1	0	1
362803	18	0	0	4	0
362804	7	0	0	3	0
362805	4	0	0	0	0
362806	4	0	0	0	0
362807	4	0	0	2	0
362808	8	0	0	5	0
362809	11	0	0	3	0
362810	20	0	0	5	0
362811	23	0	0	5	0
362812	8	0	0	0	0
362813	12	0	0	2	0
362814	21	1	0	10	0
362815	14	0	0	5	0
362816	9	0	0	2	0
362817	6	0	0	0	0
362818	13	10	0	0	0
362819	6	0	0	1	0
362820	10	0	0	3	0
362821	8	0	1	0	0

362822	16	1	0	4	0
362823	6	0	0	1	0
362824	6	0	0	0	0
362825	3	0	0	0	0
362826	16	0	0	0	0
362827	4	0	0	1	0
362828	10	1	0	1	0
362829	6	0	0	2	0
362830	9	0	0	4	0
362831	22	0	0	1	0
362832	6	0	0	1	0
362833	6	0	0	0	0
362834	11	0	0	4	0
362835	2	0	0	2	0
362836	6	0	0	4	0
362837	3	0	0	1	0
362838	5	0	0	0	0
362839	12	0	0	3	0
362840	3	0	0	1	0
362841	7	0	0	1	0
362842	1	0	0	0	0
362843	6	0	0	3	0
362845	7	1	0	1	0
362846	3	0	0	0	0
362847	3	0	0	1	0
362848	11	0	0	3	0
362850	2	0	0	0	0
362851	7	0	0	4	0
363304	1	0	0	1	1
363509	32	0	1	12	0
363511	3	0	0	2	0
OH Total	4,696	80	33	1,015	33

Source of data: CROWNWeb.

Voc Rehab = Vocational Rehabilitation

Table 8B. Vocational Rehabilitation Status, Employment Status, and School Attendance of Prevalent Dialysis Patients Age 18–54 Years in Network 9’s Service Area (as of December 15, 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	1	0	0	0	0	2
Not Attending School	5	6	0	55	130	100
School Status Not Specified	1	0	0	3	5	1,161
Employed Part-Time						
Attending School Full-Time	0	1	0	1	1	1
Attending School Part-Time	0	1	0	0	1	2
Not Attending School	8	1	1	12	60	32
School Status Not Specified	1	1	0	1	1	289
Employment Status Not Specified						
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	50
School Status Not Specified	0	2	0	0	5	427
Homemaker						
Attending School Full-Time	0	0	0	0	0	0
Attending School Part-Time	0	0	0	0	0	0
Not Attending School	1	0	0	4	30	12
School Status Not Specified	1	0	0	0	0	108
Retired*						
Attending School Full-Time	0	0	0	0	0	0
Attending School Part-Time	2	2	0	0	2	3
Not Attending School	16	8	4	53	294	104
School Status Not Specified	8	0	2	3	34	1,615
Medical Leave of Absence						
Attending School Full-Time	0	0	0	0	0	0
Attending School Part-Time	0	0	0	0	2	0
Not Attending School	5	0	2	10	37	30
School Status Not Specified	3	0	0	0	1	312
Other**						
Attending School Full-Time	1	7	0	1	4	11
Attending School Part-Time	1	6	0	0	2	5
Not Attending School	44	6	4	79	513	321
School Status Not Specified	15	5	0	6	29	2,859

Source of data: CROWNWeb.

*Retired due to preference or disability.

**Other = Employment Status of Student or Unemployed

Voc Rehab = Vocational Rehabilitation

Table 9a. Incident ESRD Patients in Network 9'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	6	2.2%
	Native Hawaiian or Other Pacific Islander	7	2.6%
	White	253	94.8%
	More Than One Race Reported	0	0.0%
	Total	267	100.0%
Not Hispanic or Latino	American Indian/Alaska Native	5	0.1%
	Asian	88	1.0%
	Black or African American	1,981	21.9%
	Native Hawaiian or Other Pacific Islander	24	0.3%
	White	6,945	76.7%
	More Than One Race Reported	9	0.1%
	Total	9,052	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	24	100.0%
	Total	24	100.0%
	Total Incident ESRD Patients	9,343	

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 (January 1, 2016 to December 31, 2016). 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.

Table 9b. Prevalent Dialysis Patients in Network 9'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	35	3.5%
	Native Hawaiian or Other Pacific Islander	27	2.7%
	White	941	93.4%
	More Than One Race Reported	4	0.4%
	Total	1,008	100.0%
Not Hispanic or Latino	American Indian/Alaska Native	16	0.0%
	Asian	259	0.8%
	Black or African American	10,883	33.6%
	Native Hawaiian or Other Pacific Islander	67	0.2%
	White	21,131	65.2%
	More Than One Race Reported	42	0.1%
	Not Specified	1	0.0%
Total	32,399	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	8	100.0%
	Total	8	100.0%
Total Prevalent ESRD Patients		33,415	

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, 2016.
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.

Table 9c. Renal Transplant Recipients* in Network 9'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	2.5%
	Black or African American	0	0.0%
	Native Hawaiian or Other Pacific Islander	1	2.5%
	White	38	95.0%
	More Than One Race Reported	0	0.0%
	Total	40	100.0%
Not Hispanic or Latino	American Indian/Alaska Native	2	0.2%
	Asian	19	1.7%
	Black or African American	254	22.8%
	Native Hawaiian or Other Pacific Islander	5	0.4%
	White	835	74.9%
	More Than One Race Reported	0	0.0%
	Total	1,115	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	18	100.0%
	Total	18	100.0%
	Total Transplant ESRD Patients	1,173	

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.

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