Introduction
After taking Courses 1 and 2, you are able to discuss what home dialysis involves, its benefits and perceived barriers, and your role. You are prepared to recognize patient readiness, talk with patients about home dialysis, and help with the referral process by sharing your insights on the patients with the rest of the team. This course looks at the broader picture—national goals, progress toward meeting them, and what you can do to help.

Renal Community Goals
In 2019, the U.S. Department of Health and Human Services (HHS) launched the Advancing American Kidney Health (AAKH) Initiative, which outlines goals to address kidney disease in the United States. The AAKH Initiative focuses on fewer patients developing kidney failure, fewer Americans receiving dialysis, and more kidneys being made available for transplant. The Centers for Medicare & Medicaid Services (CMS), an agency of HHS and the majority payer (~90%) for individuals diagnosed with end stage renal disease (ESRD), is concentrating efforts on these goals.

This makes HHS and CMS goals meaningful to everyone in the renal community—patients, providers, nephrologists, and staff—as we work together. Dialysis clinics, kidney care stakeholders, and partners across the continuum of care will be needed to create this level of systemwide change. Importantly, you, as a frontline staff member in close contact with patients, are in a vital position to help meet these goals.

The AAKH Initiative has set a goal of 80% of patients newly diagnosed with ESRD receiving dialysis in the home or receiving a transplant by 2025. As you will see in the next section, based on the current trend, only 29% of patients new to ESRD will receive a transplant or use home therapy within 180 days, falling far short of the 2025 goal.

We can do this!
It will take all of us—nephrologists, clinic managers, nurses, patient care technicians (PCTs), social workers, and dietitians—working together to reach the goal, so that more people can lead the kind of lives they want—to thrive, not just survive.

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The focus on home dialysis as an avenue to improved quality of life and patient engagement is not just being promoted at the government level. Dialysis companies, large and small, have also been encouraging home dialysis.

- What has the dialysis provider you work for done to promote home dialysis?
- Have you noticed a difference in the way people are talking about home dialysis?
- Have you received more education on home dialysis lately?

One way to support the goal to increase patients dialyzing at home is to ensure that in-center dialysis professionals, such as nurses, renal dietitians, social workers, dialysis technicians, and assistants, are knowledgeable about home dialysis treatment options. As an in-center dialysis staff member, you can promote home dialysis treatment options and talk with all patients about how home treatment could work for them. Your knowledge and awareness of home dialysis can empower conversations between the patient and the nephrologist or the home dialysis nurse.
**Progress Toward Goals for Home Dialysis**

In January 2020, the ESRD National Coordinating Center (NCC) calculated the future progress toward the 2025 goal, which is for 80% of patients newly diagnosed with ESRD receiving dialysis in the home or receiving a transplant. As you can see in the graph, on the current track, we won’t reach the goal by 2025. If we, as a community, continue along the status quo, we will not reach the goal. We must all take action.

Based on the current trend, by 2025:

- Only 29% of patients new to ESRD (incident patients) will receive a transplant or use home therapy within 180 days.
  - 25% – will receive home therapy.
  - 5% – will receive a transplant.
  - 1% – will receive both.
- The average annual projected improvement rate is 1.3%.

To meet the 2025 goal, the following is needed:

- **An additional 51%** of patients will need to receive a transplant or use home therapy.
- **An additional 63,630 patients** will need to get a transplant or start home therapy.
- **The average annual improvement will need to be 7.3%**.
Moving Forward

In Course 2, you learned ways to address barriers and misconceptions to home dialysis that both patients and professionals hold. You also have to consider environmental factors. For example, patients will need adequate space to perform home hemodialysis, or to adjust their sleeping environment to make room for a cycler while they sleep. And new environmental factors, such as managing treatment during a pandemic, like COVID-19, need to be considered.

While there is much to learn about COVID-19, the onset of the pandemic has opened new communication channels for patients and providers. For example, the use of telemedicine and telehealth reduces patient and provider exposure during routine check-ups. The pandemic may also provide a pathway to increase access to home dialysis. Patients who are concerned about their exposure to COVID-19 may want to consider home treatment options. With social distancing and gathering restrictions in place, now is a good time to ensure you are comfortable with presenting home dialysis options to patients and discussing how they can make the transition from in-center to home dialysis.

Still, obstacles must be overcome. Some obstacles, such as managing a certificate of need,³ are regulatory, while others include insufficient staff to train on home dialysis options. However, since the onset of COVID-19, the healthcare community has witnessed numerous federal, state, and local restrictions being lifted. If facilities implement staff awareness training, the dialysis community may be better positioned to meet the robust goals to increase kidney patients’ access to home dialysis, especially during these rapidly evolving times.

Success Stories

Success stories from the field are another way to advance home dialysis for more people. This brings better quality of life to more people and advances us toward our national goals outlined in the AAKH Initiative.

Success stories can provide inspiration for you as you look to adapt your facility’s services to include home dialysis options. They can also inspire hope for patients who want to dialyze at home but don’t currently have that option.

Here are two brief examples:

- Nephrologists play a significant role in supporting dialysis staff in promoting home programs. Nephrology leaders at Kaiser Permanente, East Bay, work closely with the Satellite WellBound home team members to ensure home dialysis is always the first option for patients in their programs.
- In Greenville, NC, a Fresenius clinic partnered with a local home program to transition patients with low literacy to peritoneal dialysis by creating a pictorial training guide for

³ A Certificate of Need is a legal document that is still required in some states in order to build a new dialysis facility.
patients and their caregivers. One patient with no ability to read made the transition and has maintained his peritoneal dialysis treatment for nearly two years.

Success stories like these have the potential to increase patient and provider engagement through lived experience. Sharing lived experience through stories informs and connects the listener to new or additional ways of reaching a goal, while solving challenges that arise along the way.

Storytelling is powerful. It speaks to people’s hearts and minds. It sets up the listeners to imagine what can be in their own lives.

- **Think about the last time you heard or read about one person’s journey to overcome difficulties.** As the story described his or her setbacks, feelings, actions taken, people who offered support, and eventually a happier ending, how did you feel? Did you feel inspired? Did it make you think that more things are possible in life?

- **Now think about how inspiring these stories can be to those with ESRD who feel hopeless, stuck, or lost because of this difficult diagnosis.** And, think too about the kinds of stories you share with patients. Make sure you share the successes and highlight the uplifting parts.

**Sharing Success Stories**

You may not feel you have stories to share or are not sure of what to share. These tips may help:

- Ask home dialysis nurses you work with or meet in lobby days for success stories that you can share with patients.
- Do not share names, identifying details, or any personal or protected health information. Do share what the home patients feel are the benefits of being on home dialysis along with challenges they had and how they overcame them.
- Ask the home dialysis nurse how the home team supported the patients so they could be successful at home.
- Share stories often, but always remember—never share patient names or other personally identifiable information unless you have the patient’s written permission.
Stakeholders

Healthcare stakeholders are individuals, organizations, or other entities that have an interest in healthcare. They care about what is happening in the healthcare system. They also have an impact on the healthcare system or are affected by it. For example:

- A professional association educates staff on care guidelines, which improves the care patients get.
- Patients have a say in where they get treatment, which affects how many spots are available for others.
- A patient organization posts education on home dialysis on its website, so patients understand their treatment choices.

Major stakeholders are patients, doctors, providers like dialysis facilities, and government or private insurers. These stakeholders and others have unique or different points of view and areas of expertise to share with you.

Working with Stakeholders

Collaborating with stakeholders is critical to the success of any large-scale initiative, including getting more patients referred to home dialysis. When your facility or dialysis organization works with stakeholders, a basis of teamwork and partnership is created. This can lead to positive change.

There are other benefits too! These include:

- Pooling knowledge, experience, and expertise to create solutions.
- Respecting and valuing unique perspectives.
- Reducing the level of risk through a collection of lessons learned.
- Including multi-disciplinary individuals to generate value, reduce duplication, and move the marker toward the goal.

This example shows how stakeholders can work together:

To support getting more patients to dialyze at home, the ESRD NCC brings together stakeholders. Patients, dialysis staff (nurses, social workers, dietitians, etc.), organizations, and agencies contribute to Quality Improvement Activity Learning and Action Networks, human-centered design work to increase access to home dialysis, and projects such as this Universal Staff Education.
**Home Dialysis Stakeholders**

Who are the stakeholders in home dialysis? Patients, their families, and the dialysis facility staff members are ones you may think of first, but many more stakeholders play a role in supporting patients and staff in home dialysis. This list shows some of the home dialysis stakeholders:

- People with ESRD
- Professionals who treat people with ESRD
- Private or public organizations that support people with ESRD
- Private or public organizations that support professionals who care for people with ESRD
- Government agencies, for example, CMS, and contractors such as the ESRD NCC and ESRD Networks
- Community organizations, including local support groups and peer mentoring organizations
- Family members
- Friends
- Co-workers
- Caregivers
- Public insurance like Medicare and Medicaid and private insurance, for instance, Humana, United Healthcare, and others
- Equipment and medication suppliers

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**What materials on home dialysis do you share with patients? Are they mostly ones created by the dialysis provider or company?**

**Do you think patients or families would benefit from other resources created from a different point of view? For example, would a podcast with patients talking about their experiences be helpful?**

**How can stakeholders help you get more patients referred to home dialysis?**
Stakeholder List
Look at the list of example stakeholder organizations below. The list is not intended to be all inclusive. Use the list to learn more about kidney disease, resources for patients, tools, and small- and large-scale events for networking; gain an understanding of home dialysis; and advance your skills.

ESRD Networks
You’ve probably heard ESRD Networks mentioned in your facility but may not be sure about what they do. This is how it works: The federal government contracts with quality improvement organizations to serve as ESRD Networks across the whole country in support of the ESRD Network Organization Program. There are a total of 18 Networks. Some cover one state; others cover more than one state or United States territory. You may be most familiar with their Quality Improvement Activities or working with patients who have questions about the care they receive. On behalf of CMS, Networks do this and much more to support patients and facilities. For example, they have a toll-free helpline, maintain a website, work with facilities on projects to improve the quality of care, and provide education to patients and staff on such topics as transplant and home dialysis.

Look for: Your Network’s website to find home dialysis information with resources, events, and region-specific topics.

End Stage Renal Disease National Coordinating Center (ESRD NCC)
Just as the 18 ESRD Networks support all facilities and patients, the ESRD NCC supports all Networks. Here are a few examples of how the NCC does this. The NCC helps the Networks with projects and collects and shares best practices—what works—on different topics, such as helping patients move to home dialysis. The NCC creates educational materials and programs for dialysis facilities, transplant centers, and patients with ESRD. The NCC also brings together patients with other stakeholders to make sure the patient’s voice is included in all patient resources and Network activities.

Look for: Downloadable Patient Mobile Tool with home dialysis information for patients’ mobile devices. Educational materials on home dialysis written with patients, for patients. Podcast and webinars featuring patients and caregivers talking about their home dialysis experiences.

American Association of Kidney Patients (AAKP)
“AAKP is dedicated to improving the lives and long-term outcome of kidney patients through education, advocacy, patient engagement and the fostering of patient communities.” AAKP places the interest of people with kidney disease at the forefront of advocating for informed treatment choice, including home dialysis and transplant options. AAKP also advances research and kidney innovation.

Look for: Center for Patient Research and Education, kidney-friendly recipes, and the benefits of choosing a home dialysis option.
American Kidney Fund (AKF)
AKF supports people living with kidney disease through financial assistance to improve their access to the care that they need. The organization also provides various programs to educate people with kidney disease and their families about prevention, early detection, managing kidney disease, and treatment options.

Look for: Home dialysis treatment options and support, financial assistance information for patients, resources for a kidney friendly diet, and much more.

American Nephrology Nurses Association (ANNA)
With a membership of over 8,500 Registered Nurses and other healthcare professionals, ANNA provides education and community forums to advance professionals’ expertise in the treatment of kidney disease. Members can find information on in-center dialysis options, home program treatment choices, and kidney transplantation.

Look for: The online library, education and resources for home treatment options, infection prevention, and kidney community publications.

Home Dialyzors United
Home Dialyzors United is the only dialysis patient organization dedicated to the home dialysis community. The organization’s mission is “to inspire, inform, and advocate for an extraordinary quality of life for the home dialyzor community.”

Look for: Partners in home dialysis, low-cost healthcare resources, advocacy posts, travel information for patients, special programs, and events.

Medical Education Institute (MEI)
This non-profit organization works to improve outcomes for people with kidney disease. One of MEI’s main roles is to create educational programs for patients and professionals.

Look for: Home Dialysis Central, which has easy-to-understand patient information on home dialysis basics, life stories, and locating a home program as well as a section on professional resources and tools. Kidney School, which is an interactive, web-based learning program to help professionals and patients learn about kidney disease. The web-based learning is an independent activity with resources, toolkits, and curriculums. Look also for: The Method to Assess Treatment Choices for Home Dialysis (MATCH-D) for Home Dialysis Central, which was developed “to help nephrologists and dialysis staff identify and assess candidates for home dialysis therapies (PD [peritoneal dialysis] and HHD [home hemodialysis]).” MATCH-D resources include a clinical calculator and decision support tool that can be used on mobile devices.
**National Association of Nephrology Technicians/Technologists (NANT)**
NANT offers education and networking for dialysis technicians who wish to become more proficient and increase their knowledge about dialysis treatment options.

**Look for:** Education programs, webinars, and publications representing home dialysis information.

**The National Forum of ESRD Networks**
The Forum of ESRD Networks is an independent, not-for-profit organization that supports the ESRD Networks in achieving CMS national quality goals. The Forum advocates to improve the quality of care for patients with renal disease and gains the patients’ perspective from its group of credible and engaged patients called the Kidney Patient Advisory Council (KPAC).

**Look for:** Home Dialysis Toolkit for professionals, the Transitional Care Operational Guide, and other resources and toolkits to advance the quality of care for people with kidney failure.

**National Kidney Foundation (NKF)**
NKF is dedicated to improving the quality of life of individuals and families affected by kidney disease. It offers information about kidney health, treatment options including home dialysis, getting a transplant, and being an organ donor. NKF is also a national convener of subject matter experts and researchers to advance clinical trials, improve adherence to the Kidney Disease Outcomes Quality Initiative (KDOQI) Clinical Practice Guidelines, and innovate future kidney treatment options.


**Look for:** Information on home dialysis treatment options, professional tools and resources to keep you informed, and other resources to support informed decision-making for patients considering a home dialysis option.

**Renal Support Network (RSN)**
“Renal Support Network is a national kidney patient organizations that empowers people who have kidney disease to become knowledgeable about their illness, proactive in their care, hopeful about their future and make friendships that last a lifetime.”

**Look for:** Monthly on-line support groups, Kidney Disease Health library, special events, and podcasts about transitioning to home dialysis.
Using Community Resources

In today’s rapidly changing healthcare environment, kidney professionals like you need access to community resources—people, events, educational materials and tools, and community services. Regardless of resource type, they are all central to helping you diversify your knowledge, enhance your professional support system, and connect patients with what they need.

No one dialysis company, organization, or individual holds all the answers and resources needed for every patient. The list of stakeholders in the previous section is a good place to start to build your own library of go-to information, sources, and expertise. You can also find community services through networking with social workers, faith-based ministries, and local support groups, just to name a few. And, of course, the social worker in your facility or program is an expert on community services like child or elder care, ride sharing or transportation to and from doctors’ appointments or dialysis treatments, and vocational rehabilitation to get patients ready to return to work.
Quality Assessment & Performance Improvement
Change happens at the local level. Dialysis facility Quality Assessment & Performance Improvement (QAPI) meetings are the perfect place to start. While each dialysis provider may have its own system or application to manage QAPI meetings (e.g., Facility Health Meeting, often called FHM, or QAPI meetings), the basics should be the same.

Have you attended a QAPI meeting? Do you know what these meetings are all about?
If you haven’t attended a QAPI meeting or been to one recently, speak with your clinic’s manager about attending or asking him/her to go over the data, goals, solutions, and progress toward goals with the team over lunch or during a stand-up meeting. Knowledge is power.

QAPI merges quality assessment (QA) and performance improvement (PI) into a comprehensive approach to quality management. QA is the process of meeting standards and ensuring care reaches an acceptable level. Performance improvement is the proactive, continuous study of processes with the intent to identify opportunities and test new approaches to fix the underlying causes of persistent, systemic problems. Data-driven QAPI programs may be customized to facility needs.

Key steps include:
- Identifying the problem and defining the goal.
- Deciding on a measurement to monitor improvement.
- Brainstorming solutions based on barriers and root causes or the most basic reasons something happens.
- Planning an intervention or an action meant to cause a positive change.
- Using plan-do-study-act (PDSA) to implement the improvement project.
  o You’ll learn more about PDSA in the next section.

Many metrics can be measured and tracked to make home dialysis successful. Some examples are:
- Metrics for interest, education, referrals, nephrologist input, and home program visits for all in-center hemodialysis patients. Collect, track, and share these metrics with the in-center hemodialysis and home teams.
- Real-time data related to physician home referral rates within a practice and across practices for benchmarking. Provide nephrologists with this information so they can see how their practice is doing compared to others in the region, state, or nation.
- The turnover rate from home dialysis back to in-center dialysis. Share with other staff and nephrologists that a higher than expected turnover rate means that people are being given a chance on home dialysis.
- Reasons for turnover. Address modifiable reasons, including peritonitis, psychosocial issues, and loss of caregiver support.
Learn more about QAPI
Go to the Forum of ESRD Networks website at https://esrdnetworks.org/resources/toolkits/mac-toolkits-1/qapi-toolkit/qapi-toolkit to learn more about QAPI. Dialysis facilities can contact their local ESRD Networks for assistance with PDSA principles and practices, questions about change strategies, and home dialysis resources. A complete listing of ESRD Networks can be found at https://esrdncc.org/en/ESRD-network-map/.
**Taking Action with a Quality Improvement Mindset**

A quality improvement mindset means you’re always willing to improve processes and products through implementation, testing, and feedback loops. To adopt a quality improvement (QI) mindset, start with improving something small. After each improvement, reflect on what you’ve accomplished and how this makes you and the team feel. Focus on what improvement strategies or tactics contributed to the greatest improvement. Consider new ways to get more of that improvement or behavior change. This positive feeling of achievement and understanding how it was accomplished is the fuel for your next improvement.

Below are strategies you can use to adopt and stay in a quality improvement and growth mindset.

- Participate in home dialysis education.
- Volunteer to be a home dialysis ambassador or champion.
- Pose questions about home therapies at monthly quality meetings.
- Recommend that a home program team member joins the in-center QAPI meeting.
- Suggest that your facility partner with a home program to hold lobby days.
- Propose the staff team utilize a tracking tool to track the patient’s progress for moving to home dialysis.
- Advocate for peer-to-peer mentoring from a home dialysis patient.
- Celebrate facility and patient successes such as graduation to home dialysis, length of time treating at home, and program growth.

The “QI mindset” doesn’t say, “I think we’re doing pretty good” or “We’re doing everything we can” or “This is the most we can do with our patients.”

Quality improvement relies on objective data, benchmarking, goal setting, and remeasurement to assess true progress and achieve ambitious goals.

The quality improvement mindset is curious, fact-based, and accepts that change is constant.

It is the continuous study and improvement of processes to improve outcomes and prevent or decrease barriers and issues. It does this by identifying areas of opportunity and testing new ideas to fix the causes.

*Do you know your facility’s goals for home dialysis? What metrics are you tracking? Are you on track to meet your goals?*
Quality Improvement Tools

Formal quality improvement tools are a great addition to QAPI. They provide a structure to create goals, track progress, and measure what interventions are working. They can also be used in small ways every week as you interact with patients and carry out all the roles in your job.

As you read about these, think, how can I use the quality improvement mindset to be curious, objective, and create new outcomes for patients and reach facility goals?

Plan-Do-Study-Act (PDSA) Cycle

The Plan-Do-Study-Act (PDSA) cycle is a method of testing change by planning the change, implementing it, observing the results, and acting on what was learned. PDSA incorporates learned experience into improvement and is designed to be used in short iterative cycles that move a project or process closer to providing measurable outcomes and impact.

Think about this:

Your facility tries a new process for home dialysis referrals. How do you know if it helps? Well, you might start the new process and later ask staff and patients what they think of it. Did the new process work? You could wait a few months and see if there is any difference, but you don’t know for sure, do you?

Now, try it with a “QI mindset” using the PDSA tool. Plan all parts of the new process, including who is doing what for how long, when, and how often and how you’ll measure if the plan is working. Then Do the new process. Following the plan you wrote, Check (or Study) to see if what you’re measuring is improving. Lastly, Act based on whether you see improvement.

If you don’t see improvement or don’t see as much improvement as you were expecting, start over and make changes to the plan that you think are needed. Then, start the PDSA process again.

Remember, it’s best to try one new thing at a time if it’s significant. That way you can tell what interventions are making the difference.

The PDSA tool can be used in smaller ways, too, such as in patient education. Plan the education you’ll be providing. Do it. Check to see if the patient understands what you’re teaching. Then Act based on his or her response. If the patient didn’t receive the message you were sharing, it’s time to adapt it and try again.
The Five Whys
The Five Whys is used to drill down to the details of a problem. This method is asking the question "why" five times to identify the root cause. Answering the why can lead to new interventions with greater improvement impact.

Using the Five Whys in QI does not always happen all at one time. Sometimes, you may make more progress if you stop and study the successes and barriers to each why response. It’s easy to get caught up in the why, but you also want to better understand how to achieve more success and solve barriers. QI looks at the processes that caused these outcomes.

Imagine this:

At a staff meeting on home dialysis, a co-worker says, “Well most of our patients just aren’t interested in home dialysis.” Having just finished this course, you decide to try on a “QI mindset” and employ the Five Whys. It might go like this.

**Why are most of the patients not interested in home dialysis?**
Because patients haven’t received any education.

**Why haven’t they received any education about home dialysis?**
Because the staff has not received any training on home dialysis.

**Why hasn’t the staff received any training on home dialysis?**
It has not been a part of the ongoing/annual education for the staff.

**Why has it not been a part of the education for the staff?**
Because there is no home dialysis expert available to the dialysis unit.

**Why isn’t there a home dialysis expert available to the dialysis unit?**
Because it has not been a priority.

This is a missed opportunity to promote home dialysis and educate all patients on the benefits of home dialysis. The dialysis facility should partner with a current home program within their organization to provide education to all staff about home modality options.

This same 5 Whys or QI mindset could be helpful in working with an individual patient. As the patient shares his or her reasons for not considering home dialysis, continue to ask why. Asking why will eventually drill down to a benefit or potential barrier to overcome.
Case Study

Your dialysis facility only had two patients that converted to a home modality last year. During a recent quality meeting, the medical director recognizes that the facility has a low home referral rate. He decides he would like the facility to initiate a quality improvement project.

As the manager, you have just completed this module and decide to utilize the PDSA cycle to improve the outcomes.

What is the first step?

Do you start with staff education?

Or do you start with patient education?

No—you must start with the “P” phase or the planning phase of the PDSA cycle.

The team meets to set an achievement goal and agrees on “increase the number of patients moving to home dialysis by 5% by the end of the year.” The team also discusses “Why are we changing?” and “What are we changing?”

Once the planning phase is completed, the team focuses on the “D” or do phase. The team chooses to roll out a comprehensive home education program for the patients. It includes two educational flyers and a video. This takes place over four weeks.

Next, comes the “S” or study phase. For this, the team reviews how many patients are interested in or have moved to home dialysis. The team determines the plan was not successful because no patients expressed interest in changing to a home modality.

The last phase is the “A” or act phase. The team decides that changes need to be made to the plan.

What could have been done differently?

What other actions could have been implemented as part of the “D” phase?

What are the next steps?

You gather the team and return to phase “P” and develop a new and different plan that might result in success.

Ideas to consider include:

- Providing home dialysis education for the staff.
- Having a home program nurse provide an in-service to staff.
- Promoting home dialysis by hanging flyers in the lobby.
Next Steps

Congratulations, you have completed Course 3. Click HERE to complete the course evaluation. After submitting the course evaluation, you will be directed to the learning management system to take a quiz. Upon passing the quiz, you will receive 1.5 continuing education units (CEUs).