



# Outpatient Dialysis Center Practices Survey

Complete this survey as described in the [Dialysis Event Protocol](#).

**Instructions:** This survey is only for dialysis centers that provide in-center hemodialysis. If your center offers only home dialysis, please complete the Home Dialysis Center Practices Survey. Complete one survey per center. Surveys are completed for the current year. It is strongly recommended that the survey is completed in February of each year by someone who works in the center and is familiar with current practices within the center. Complete the survey based on the actual practices at the center, not necessarily the center policy, if there are differences.

\*required to save as complete

Facility ID #: \_\_\_\_\_ \*Survey Year: \_\_\_\_\_

ESRD Network #: \_\_\_\_\_

## A. Dialysis Center Information

### A.1. General

- \*1. What is the ownership of your dialysis center? (choose one)
  - Government
  - Not for profit,
  - For-profit
- \*2. a. What is the location/hospital affiliation of your dialysis center? (choose one)
  - Freestanding
  - Hospital-based
  - Freestanding but owned by a hospital
 b. If hospital-based or hospital-owned, is your center affiliated with a teaching hospital?  Yes  No
- \*3. Is your facility accredited by an organization other than CMS?  Yes  No
  - a. If yes, specify: \_\_\_\_\_
- \*4. a. What types of dialysis services does your center offer? (select all that apply)
  - In-center daytime hemodialysis
  - In-center nocturnal hemodialysis
  - Peritoneal dialysis
  - Home hemodialysis
 b. What patient population does your center serve? (select one)
  - Adult only
  - Pediatric only
  - Mixed: adult and pediatric
- \*5. How many in-center hemodialysis stations does your center have? \_\_\_\_\_
- \*6. Is your center part of a group or chain of dialysis centers?  Yes  No
  - a. If yes, what is the name of the group or chain? \_\_\_\_\_
- \*7. Do you (the person primarily responsible for collecting data for this survey) perform patient care in the dialysis center?  Yes  No
- \*8. Is there someone at your dialysis center in charge of infection control?  Yes  No
  - a. If yes, which best describes this person? (if >1 person in charge, select all that apply)
    - Hospital-affiliated or other infection control practitioner comes to our unit
    - Dialysis nurse or nurse manager
    - Dialysis center administrator or director
    - Dialysis education specialist
    - Patient care technician
    - Other, specify: \_\_\_\_\_
- \*9. Is there a dedicated vascular access nurse/coordinator (either full or part-time) at your center?  Yes  No

**Assurance of Confidentiality:** The voluntarily provided information obtained in this surveillance system that would permit identification of any individual or institution is collected with a guarantee that it will be held in strict confidence, will be used only for the purposes stated, and will not otherwise be disclosed or released without the consent of the individual, or the institution in accordance with Sections 304, 306 and 308(d) of the Public Health Service Act (42 USC 242b, 242k, and 242m(d)).

Public reporting burden of this collection of information is estimated to average 2.12 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC, Reports Clearance Officer, 1600 Clifton Rd., MS D-74, Atlanta, GA 30333, ATTN: PRA (0920-0666).



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## A.2. Isolation and Screening

- \*10. Does your center have capacity to isolate patients with hepatitis B?  
 Yes, use hepatitis B isolation room     Yes, use hepatitis B isolation area     No hepatitis B isolation
- \*11. Are patients routinely isolated or cohorted for treatment within your center for any of the following conditions? (if yes, select all that apply)  
 No, none                       Hepatitis C                       Active tuberculosis (TB disease)  
 Vancomycin-resistant *Enterococcus* (VRE)                       *Clostridioides difficile* (C. diff.)  
 Methicillin-resistant *Staphylococcus aureus* (MRSA)     Other, specify: \_\_\_\_\_
- \*12. Does your center routinely screen patients for latent tuberculosis infection (LTBI) on admission to your center?                       Yes     No

## A.3. Patient Records and Surveillance

- \*13. Does your center maintain records of the **station** where each patient received their hemodialysis treatment for every treatment session?                       Yes     No
- \*14. Does your center maintain records of the **machine** used for each patient's hemodialysis treatment for every treatment session?                       Yes     No
- \*15. If a patient from your center was hospitalized, how often is your center able to determine if a bloodstream infection contributed to their hospital admission?  
 Always     Often     Sometimes     Rarely     Never     N/A – not pursued
- \*16. How often is your center able to obtain a patient's microbiology lab records from a hospitalization?  
 Always     Often     Sometimes     Rarely     Never     N/A – not pursued
- \*17. Which of the following infections in your peritoneal dialysis patients does your center routinely track? (select all that apply)  
 Peritonitis                       Peritoneal dialysis catheter site infection     Other (specify) \_\_\_\_\_
- \*18. Which of the following infections in your home hemodialysis patients does your center routinely track? (select all that apply)  
 Bloodstream infection     Vascular access site infection                       Other (specify) \_\_\_\_\_

**Please respond to the following questions based on information from your center for the first week of February (applies to current or most recent February relative to current date).**

## B. Patient and staff census

- \*19. Was your center operational during the first week of February?                       Yes     No
- \*20. How many MAINTENANCE, NON-TRANSIENT dialysis **PATIENTS** were assigned to your center during the first week of February? \_\_\_\_\_  
 Of these, indicate the number who received:  
 a. In-center hemodialysis: \_\_\_\_\_  
 b. Home hemodialysis: \_\_\_\_\_  
 c. Peritoneal dialysis: \_\_\_\_\_
- \*21. How many acute kidney injury (AKI) patients received hemodialysis in your center during the first week of February? \_\_\_\_\_
- \*22. How many **PATIENT CARE** staff (full time, part time, or affiliated with) worked in your center during the first week of February? *Include only staff who had direct contact with dialysis patients or equipment.* \_\_\_\_\_  
 Of these, how many were in each of the following categories?  
 a. Nurse/nurse assistant: \_\_\_\_\_                      e. Dietitian: \_\_\_\_\_  
 b. Dialysis patient-care technician: \_\_\_\_\_                      f. Physicians/physician assistant: \_\_\_\_\_  
 c. Dialysis biomedical technician: \_\_\_\_\_                      g. Nurse practitioner: \_\_\_\_\_  
 d. Social worker: \_\_\_\_\_                      h. Other: \_\_\_\_\_

## C. Vaccines

- \*23. Of the dialysis patients counted in question 19, how many received:
- a. At least 3 doses of hepatitis B vaccine (ever)? \_\_\_\_\_
  - b. The influenza (flu) vaccine for the current/most recent flu season? \_\_\_\_\_
  - c. At least one dose of pneumococcal vaccine (ever)? \_\_\_\_\_
- \*24. Of the in-center hemodialysis patients counted in question 19a, how many received:
- a. At least 3 doses of hepatitis B vaccine (ever)? \_\_\_\_\_
  - b. The influenza (flu) vaccine for the current/most recent flu season? \_\_\_\_\_
  - c. At least one dose of pneumococcal vaccine (ever)? \_\_\_\_\_
- \*25. Of the patient care staff members counted in question 21, how many received:
- a. At least 3 doses of hepatitis B vaccine (ever)? \_\_\_\_\_
  - b. The influenza (flu) vaccine for the current/most recent flu season? \_\_\_\_\_
- \*26. Does your center use standing orders to allow nurses to administer any of the vaccines mentioned above to patients without a specific physician order?  Yes  No
- \*27. Which type of pneumococcal vaccine does your center offer to **patients**? (choose one)
- Polysaccharide (i.e., PPSV23) only
  - Conjugate (e.g., PCV13) only
  - Both polysaccharide & conjugate
  - Neither offered

## D. Hepatitis B and C

### D.1. Hepatitis B

- \*28. Of the MAINTENANCE, NON-TRANSIENT in-center hemodialysis PATIENTS from question 19a:
- a. How many were hepatitis B surface **ANTIGEN** (HBsAg) positive in the first week of February? \_\_\_\_\_
    - i. Of these patients who were hepatitis B surface **ANTIGEN** (HBsAg) positive in the first week of February, how many were positive when first admitted to your center? \_\_\_\_\_
  - b. How many patients converted from hepatitis B surface ANTIGEN (HBsAg) negative to positive during the prior 12 months (*i.e., in the past year, how many patients had newly acquired hepatitis B virus infection; not as a result of vaccination*)? Do not include patients who were antigen positive before they were first dialyzed in your center. \_\_\_\_\_
- \*29. In the past year, has your center had  $\geq 1$  hemodialysis patient who reverse seroconverted (i.e., had evidence of resolved hepatitis B infection followed by reappearance of hepatitis B surface antigen)?  Yes  No

### D.2. Hepatitis C

- \*30. Does your center routinely screen hemodialysis patients for **hepatitis C** antibody (anti-HCV) on admission to your center? (*Note: This is NOT hepatitis B core antibody*)  Yes  No
- \*31. Does your center routinely screen hemodialysis patients for hepatitis C antibody (anti-HCV) at any other time?  Yes  No
- If yes, how frequently?
- Twice annually  Annually  Other, specify: \_\_\_\_\_
- \*32. Of the MAINTENANCE, NON-TRANSIENT in-center hemodialysis patients counted in question 19a,
- a. How many were hepatitis C antibody positive in the first week of February? \_\_\_\_\_
    - i. Of these patients who were hepatitis C antibody positive in the first week of February, how many were positive when first admitted to your center? \_\_\_\_\_
  - b. How many patients converted from hepatitis C antibody negative to positive during the prior 12 months (*i.e., in the past year, how many patients had newly acquired hepatitis C infection*)? Do not include patients who were anti-HCV positive before they were first dialyzed in your center. \_\_\_\_\_

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**E. Dialysis Policies and Practices**

**E.1. Dialyzer Reuse**

\*33. Does your center reuse dialyzers for any patients?  Yes  No

If yes,

- a. Of the MAINTENANCE, NON-TRANSIENT in-center hemodialysis patients counted in 19a, how many of them participate in dialyzer reuse? \_\_\_\_\_
- b. Does your center routinely test reverse osmosis (R.O.) water from the reuse room for culture and endotoxin whenever a reuse patient has a pyrogenic reaction?  Yes  No
- c. Of all reused dialyzers at your center, how many undergo refrigeration prior to reprocessing?  
 All  Most  Some  Few  None
- d. Is there a limit to the number of times a dialyzer is used?  
 Yes (indicate number): \_\_\_\_\_  
 No limit as long as dialyzer meets certain criteria (e.g., passes pressure leak test, etc.)
- e. Of all reused dialyzers in your center, how many of them have sealed (non-removable) header caps?  
 All  Most  Some  Few  None
- f. Where are dialyzers reprocessed?  
 Dialyzers are reprocessed at our center only  
 Dialyzers are transported to an off-site facility for reprocessing only  
 Both at our center and off-site

If any dialyzers are reprocessed at the facility,

- i. How is dialyzer header cleaning performed? (select all that apply)
  - Automated machine (e.g., RenaClear® System)
  - Spray device (e.g., ASSIST® header cleaner)
  - Insertion of twist-tie or other instrument to break up clots
  - Disassemble dialyzer to manually clean
  - Other, specify: \_\_\_\_\_
  - No separate header cleaning step performed
- ii. How are dialyzers reprocessed?  
 Automated reprocessing equipment  
 Manual reprocessing

**E.2. Water/Dialysate**

\*34. What type of dialysate is used for in-center hemodialysis patients at your center? (choose one)

Conventional  
 Ultrapure

\*35. Does your center routinely test the following whenever a patient has a pyrogenic reaction?

- a. Patient blood culture  Yes  No
- b. Dialysate from the patient's dialysis machine  Yes  No

**E.3. Priming Practices**

\*36. Does your center use hemodialysis machine Waste Handling Option (WHO) ports?  Yes  No

\*37. Are any patients in your center "bled onto the machine" (i.e., where blood is allowed to reach or almost reach the prime waste receptacle or WHO port)?  Yes  No

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## E.4. Injection Practices

- \*38. What form of erythropoiesis stimulating agent (ESA) is most often used in your center?  
 Single-dose vial       Multi-dose vial       Pre-packaged syringe       N/A  
 a. Is ESA from one single-dose vial or syringe administered to more than one patient?       Yes       No
- \*39. Where are medications most commonly drawn into syringes to prepare for patient administration? (choose one)  
 At the individual dialysis stations  
 On a mobile medication cart within the treatment area  
 At a fixed location within the patient treatment area (e.g., at nurses' station)  
 At a fixed location removed from the patient treatment area (not a room)  
 In a separate medication room  
 In a pharmacy  
 Other, specify: \_\_\_\_\_
- \*40. Do technicians administer any IV medications or infusates (e.g., heparin, saline) in your center?       Yes       No
- \*41. What form of **saline flush** is most commonly used?  
 Manufacturer pre-filled saline syringes  
 Flushes are drawn from single-use saline vials  
 Flushes are drawn from multi-dose saline vials  
 Flushes are drawn from the patient's designated saline bag used for dialysis  
 Flushes are drawn from the patient's dialysis circuit  
 Flushes are drawn from a common saline bag used for all patients  
 Other (specify): \_\_\_\_\_

## E.5. Antibiotic Use

- \*42. Does your center use the following means to restrict or ensure appropriate antibiotic use?  
 a. Have a written policy on antibiotic use       Yes       No  
 b. Formulary restrictions       Yes       No  
 c. Antibiotic use approval process       Yes       No  
 d. Automatic stop orders for antibiotics       Yes       No
- \*43. In your center, how often are antibiotics administered for a suspected bloodstream infection before blood cultures are drawn (or without performing blood cultures)?  
 Always       Often       Sometimes       Rarely       Never

## E.6. Prevention Activities

- \*44. Has your center participated in any national or regional infection prevention-related initiatives in the past year?       Yes       No  
 a. If yes, what is the primary focus of the initiative(s)? (if >1 initiative, select all that apply)  
 Catheter reduction  
 Hand hygiene  
 Bloodstream infection prevention  
 Patient education/engagement for infection prevention  
 Increase vaccination rates  
 Decrease/improve use of antibiotics  
 Improve general infection control practices  
 Improve culture of safety  
 Other, specify: \_\_\_\_\_

## E.6. Prevention Activities (continued)

b. If yes, is your center actively participating in any of the following prevention initiatives (select all that apply):

- CDC Making Dialysis Safer for Patients Coalition – facility-level participation
- CDC Making Dialysis Safer for Patients Coalition – corporate- or other organization-level participation
- The Standardizing Care to improve Outcomes in Pediatric Endstage Renal Disease (SCOPE) Collaborative Peritoneal Dialysis Catheter-related Infection Project
- SCOPE Collaborative Hemodialysis Access-related Infection Project
- None of the above

\*45. In the past year, has your center’s medical director participated in a leadership or educational activity as part of the American Society of Nephrology’s (ASN) Nephrologists Transforming Dialysis Safety (NTDS) Initiative?  Yes  No

\*46. Does your center follow [CDC-recommended Core Interventions](#) to prevent bloodstream infections in hemodialysis patients?

- Yes, all       Yes, some       No, none

\*47. Does your center perform hand hygiene audits of staff monthly (or more frequently)?  Yes  No

\*48. Does your center perform observations of staff vascular access care and catheter accessing practices quarterly (or more frequently)?  Yes  No

\*49. Does your center perform staff competency assessments for vascular access care and catheter accessing annually (or more frequently)?  Yes  No

## E.7. Peritoneal Dialysis

\*50. For **peritoneal dialysis catheters**, is antimicrobial ointment routinely applied to the exit site during dressing change?  Yes  No

a. If yes, what type of ointment is most commonly used? (select one)

- Gentamicin
- Mupirocin
- Povidone-iodine
- Bacitracin/polymyxin B (e.g., Polysporin®)
- Bacitracin/neomycin/polymyxin B (triple antibiotic)
- Bacitracin/gramicidin/polymyxin B (Polysporin® Triple)
- Other, specify: \_\_\_\_\_

## F. Vascular Access

### F.1. General Vascular Access Information

\*51. Of the MAINTENANCE, NON-TRANSIENT hemodialysis patients from question 19 (19a + 19b), how many received hemodialysis through each of the following access types during the first week of February?

- a. AV fistula: \_\_\_\_\_
- b. AV graft: \_\_\_\_\_
- c. Tunneled central line: \_\_\_\_\_
- d. Nontunneled central line: \_\_\_\_\_
- e. Other vascular access device (e.g., catheter-graft hybrid): \_\_\_\_\_

### F.2. Arteriovenous (AV) Fistulas or Grafts

\*52. Before prepping the fistula or graft site for rope-ladder cannulation, what is the site most often cleansed with?  
 Soap and water     Alcohol-based hand rub     Antiseptic wipes     Other, specify: \_\_\_\_\_     Nothing

**F.2. Arteriovenous (AV) Fistulas or Grafts (continued)**

\*53. Before rope-ladder cannulation of a fistula or graft, what is the site most often prepped with?  
(select one)

- Alcohol
- Chlorhexidine without alcohol
- Chlorhexidine with alcohol (e.g., Chloarprep™, PDI Prevantics®)
- Povidone-iodine (or tincture of iodine)
- Sodium hypochlorite solution (e.g., ExSept®, Alcavis) without alcohol
- Sodium hypochlorite solution (e.g., ExSept®, Alcavis) followed by alcohol
- Other, specify: \_\_\_\_\_
- Nothing

a. What form of this skin antiseptic is used to prep fistula/graft sites?

- Multiuse bottle (e.g., poured onto gauze)
- Pre-packaged swabstick/spongstick
- Pre-packaged pad
- Other, specify: \_\_\_\_\_
- N/A

\*54. How many of the fistula patients in your center undergo buttonhole cannulation?

- All     Most     Some     None

If any,

a. Which fistula patients undergo buttonhole cannulation?

- In-center hemodialysis patients only
- Home hemodialysis patients only
- Both

If any in-center hemodialysis patients undergo buttonhole cannulation,

b. When buttonhole cannulation is performed for in-center hemodialysis patients:

i. Who most often performs it?

- Nurse
- Patient (self-cannulation)
- Technician
- Other, specify: \_\_\_\_\_

ii. Before cannulation, what is the buttonhole site most often prepped with? (select the one most commonly used)

- Alcohol
- Chlorhexidine without alcohol
- Chlorhexidine with alcohol (e.g., Chloarprep™, PDI Prevantics®)
- Povidone-iodine (or tincture of iodine)
- Sodium hypochlorite solution (e.g., ExSept®, Alcavis) without alcohol
- Sodium hypochlorite solution (e.g., ExSept®, Alcavis) followed by alcohol
- Other, specify: \_\_\_\_\_
- Nothing

iii. Is antimicrobial ointment (e.g., mupirocin) routinely used at buttonhole cannulation sites to **prevent** infection?

- Yes     No



## F.3. Hemodialysis Catheters

- \*55. Before accessing the hemodialysis catheter, what are the **catheter hubs** most commonly prepped with? (select one)
- Alcohol
  - Chlorhexidine without alcohol
  - Chlorhexidine with alcohol (e.g., Chloarprep™, PDI Prevantics®)
  - Povidone-iodine (or tincture of iodine)
  - Sodium hypochlorite solution (e.g., Alcavis) without alcohol
  - Sodium hypochlorite solution (e.g., Alcavis) followed by alcohol
  - Other, specify: \_\_\_\_\_
  - Nothing
- a. What form of this antiseptic/disinfectant is used to prep the catheter hubs?
- Multiuse bottle (e.g., poured onto gauze)
  - Pre-packaged swabstick/spongestick
  - Pre-packaged pad
  - Other, specify: \_\_\_\_\_
  - N/A
- \*56. Are catheter hubs routinely scrubbed after the cap is removed and before accessing the catheter (or before accessing the catheter via a needleless connector device, if one is used)?  Yes  No
- \*57. When the catheter dressing is changed, what is the exit site (i.e., place where the catheter enters the skin) most commonly prepped with? (select one)
- Alcohol
  - Chlorhexidine without alcohol
  - Chlorhexidine with alcohol (e.g., Chloarprep™, PDI Prevantics®)
  - Povidone-iodine (or tincture of iodine)
  - Sodium hypochlorite solution (e.g., ExSept®, Alcavis) without alcohol
  - Sodium hypochlorite solution (e.g., ExSept®, Alcavis) followed by alcohol
  - Other, specify: \_\_\_\_\_
  - Nothing
- a. What form of this antiseptic/disinfectant is used at the exit site?
- Multiuse bottle (e.g., poured onto gauze)
  - Pre-packaged swabstick/spongestick
  - Pre-packaged pad
  - Other, specify: \_\_\_\_\_
  - N/A
- \*58. For **hemodialysis catheters**, is antimicrobial ointment routinely applied to the exit site during dressing change?  Yes  No  N/A – chlorhexidine-impregnated dressing is routinely used
- a. If yes, what type of ointment is most commonly used? (select one)
- |   |  |
|---|--|
| <input type="checkbox"/> Bacitracin/gramicidin/polymyxin B (Polysporin® Triple) | <input type="checkbox"/> Gentamicin      |
| <input type="checkbox"/> Bacitracin/polymyxin B (e.g., Polysporin®)             | <input type="checkbox"/> Mupirocin       |
| <input type="checkbox"/> Bacitracin/neomycin/polymyxin B (triple antibiotic)    | <input type="checkbox"/> Povidone-iodine |
| <input type="checkbox"/> Other, specify: _____                                  |  |
- \*59. What is the job classification of staff members who most often perform hemodialysis catheter care (i.e., access catheters or perform exit site care) in your center? (select one)
- Nurse  Technician  Other, specify: \_\_\_\_\_





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## F.3. Hemodialysis Catheters (continued)

- \*60. Are antimicrobial lock solutions used to **prevent** hemodialysis catheter infections in your center?  
 Yes, for all catheter patients       Yes, for some catheter patients       No  
a. If yes, which lock solution is most commonly used? (select one)  
 Sodium citrate       Taurolidine  
 Gentamicin       Ethanol  
 Vancomycin       Multi-component lock solution or other, specify: \_\_\_\_\_
- \*61. Are needleless closed connector devices (e.g., Tego®, Q-Syte™) used on hemodialysis catheters in your center?       Yes       No  
a. If yes, for which patients?  
 In-center hemodialysis patients only  
 Home hemodialysis patients only  
 Both
- \*62. Are any of the following routinely used for hemodialysis catheters in your center? (select all that apply)  
 Chlorhexidine dressing (e.g., Biopatch®, Tegaderm™ CHG)  
 Other antimicrobial dressing (e.g., silver-impregnated)  
Antiseptic-impregnated catheter cap/port protector:  
 3M™ Curoc™ Disinfecting Port Protectors  
 ClearGuard® HD end caps  
 Antimicrobial-impregnated hemodialysis catheters  
 None of the above
- \*63. a. Do you provide catheter patients with supplies to allow for changing catheter dressings outside the dialysis center?  
 Yes, routinely       Yes, only in certain circumstances       No  
b. Do you provide catheter patients with a protective catheter cover (e.g. Catheter Shower Cover by Shower Shield®, Cath Dry™) to allow them to shower?  
 Yes, routinely       Yes, only in certain circumstances       No

Comments:

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