



Outpatient Dialysis Center Practices Survey

Form Approved
OMB No. 0920-0666
Exp. Date:
www.cdc.gov/nhsn

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. Please submit your responses to the questions in this survey electronically by logging into your NHSN facility.

*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 (choose one)
 - Joint Commission
 - National Dialysis Accreditation Commission (NDAC)
 - Accreditation Commission for Health Care (ACHC)
 - Other (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: _____

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)).

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- *9. Does your center provide dialysis services within long-term care facilities (e.g., staff-assisted dialysis in nursing homes or skilled nursing facilities; *not* long-term acute care hospitals)? Yes No
- a. If yes, in how many long-term care facilities? _____
- *10. Is there a dedicated vascular access nurse/coordinator (either full or part-time) at your center? Yes No

A.2. Isolation and Screening

- *11. 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
- *12. 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)
 Methicillin-resistant *Staphylococcus aureus* (MRSA) Other, specify: _____
- *13. Are patients routinely assessed for conditions that might warrant additional infection control precautions, such as infected wounds with drainage, fecal incontinence or diarrhea? Yes No
a. If yes, when does this assessment most often occur? (select one)
 Before the patient enters the treatment area (e.g., at check-in or in the waiting room)
 Once the patient is seated in the treatment station
 Other (specify) _____
- *14. Does your center routinely screen patients for latent tuberculosis infection (LTBI) on admission to your center? Yes No
a. If yes, what method is used to screen? (select all that apply)
 Tuberculin Skin Test (TST) Blood Test Other (specify) _____

A.3. Patient Records and Surveillance

- *15. Does your center maintain records of the **station** where each patient received their hemodialysis treatment for every treatment session? Yes No
- *16. Does your center maintain records of the **machine** used for each patient's hemodialysis treatment for every treatment session? Yes No
- *17. 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
- *18. 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
- *19. Which of the following infections in your peritoneal dialysis patients does your center routinely track? (select all that apply)
 Peritonitis Exit site infection Tunnel infection Other (specify) _____
- *20. Which of the following events in your home hemodialysis patients does your center routinely track? (select all that apply)
 Bloodstream infection Needle/access dislodgement Other (specify) _____
 Vascular access site infection Air embolism
 Catheter breakage or bloodline separation

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

- *21. Was your center operational during the first week of February? Yes No
- *22. 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: _____



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- *23. How many acute kidney injury (AKI) patients received hemodialysis in your center during the first week of February? _____
- *24. 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: _____ | a. Dietitian: _____ |
| b. Dialysis patient-care technician: _____ | b. Physicians/physician assistant: _____ |
| c. Dialysis biomedical technician: _____ | c. Nurse practitioner: _____ |
| d. Social worker: _____ | d. Other: _____ |

C. Vaccines

- *25. Of the in-center hemodialysis patients counted in question 22a, how many received:
- At least 3 doses of hepatitis B vaccine (ever)? _____
 - The influenza (flu) vaccine for the current/most recent flu season? _____
 - At least one dose of pneumococcal vaccine (ever)? _____
- *26. Of the home hemodialysis patients counted in question 22b, how many received:
- At least 3 doses of hepatitis B vaccine (ever)? _____
 - The influenza (flu) vaccine for the current/most recent flu season? _____
 - At least one dose of pneumococcal vaccine (ever)? _____
- *27. Of the peritoneal dialysis patients counted in question 22c, how many received:
- At least 3 doses of hepatitis B vaccine (ever)? _____
 - The influenza (flu) vaccine for the current/most recent flu season? _____
 - At least one dose of pneumococcal vaccine (ever)? _____
- *28. Of the patient care staff members counted in question 24, how many received:
- At least 3 doses of hepatitis B vaccine (ever)? _____
 - The influenza (flu) vaccine for the current/most recent flu season? _____
- *29. 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
- *30. 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

- *31. Of the MAINTENANCE, NON-TRANSIENT in-center hemodialysis PATIENTS from question 22a:
- How many were hepatitis B surface **ANTIGEN** (HBsAg) positive in the first week of February? _____
 - 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? _____
 - 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:* _____
- *32. In the past year, has your center had ≥ 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

- *33. Does your center routinely screen hemodialysis patients for **hepatitis C** antibody (anti-HCV) Yes No



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on admission to your center? (Note: This is NOT hepatitis B core antibody)

*34. 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: _____

*35. Of the MAINTENANCE, NON-TRANSIENT in-center hemodialysis patients counted in question 22a,

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: _____

E. Dialysis Policies and Practices

E.1. Dialyzer Reuse

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

If yes,

a. Of the MAINTENANCE, NON-TRANSIENT in-center hemodialysis patients counted in 22a, 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

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



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- Conventional
- Ultrapure

*38. 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

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

*40. Are any patient 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

E.4. Injection Practices

*41. 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

*42. What 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: _____

*43. Do technicians administer any IV medications or infusates (e.g., heparin, saline) in your center? Yes No

*44. 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

*45. 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

*46. 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

*47. 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)



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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 End Stage Renal Disease (SCOPE) Collaborative Peritoneal Dialysis Catheter-related Infection Project
- SCOPE Collaborative Hemodialysis Access-related Infection Project
- None of the above

*48. 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

*49. Does your center follow CDC-recommended Core Interventions to prevent bloodstream infections in hemodialysis patients?
 Yes, all Yes, some No, none

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

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

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

E.7. Peritoneal Dialysis

*53. 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

*54. Of the MAINTENANCE, NON-TRANSIENT in-center hemodialysis patients from question 22a, 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., HeRO®): _____

*55. Of the MAINTENANCE, NON-TRANSIENT home hemodialysis patients from question 22b, 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., HeRO®): _____

F.2. Arteriovenous (AV) Fistulas or Grafts

*56. 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

*57. 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., Chloarep™, PDI Prevantics®)
- 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

*58. Of the AV fistula patients from question 54a, how many had buttonhole cannulation? _____

If any in-center hemodialysis patients undergo buttonhole cannulation,

a. 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., Chloarep™, 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

*59. Of the AV fistula patients from question 55a, how many had buttonhole cannulation? _____

If any home hemodialysis patients undergo buttonhole cannulation,

a. When buttonhole cannulation is performed for home hemodialysis patients:

i. Who most often performs it?

- Patient
- Caregiver
- Other, specify: _____

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



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- 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

- *60. Before accessing the hemodialysis catheter, what are the **catheter hubs** most commonly prepped with? (select one)
- a. Alcohol
 - b. Chlorhexidine without alcohol
 - c. Chlorhexidine with alcohol (e.g., Chloarprep™, PDI Prevantics®)
 - d. Povidone-iodine (or tincture of iodine)
 - e. Sodium hypochlorite solution (e.g., Alcavis) without alcohol
 - Sodium hypochlorite solution (e.g., Alcavis) followed by alcohol
 - g. Other, specify: _____
 - h. Nothing
- a. What form of this antiseptic/disinfectant is used to prep the catheter hubs?
- Multiuse bottle (e.g., poured onto gauze)
 - k. Pre-packaged swabstick/spongestick
 - Pre-packaged pad
 - m. Other, specify: _____
 - n. N/A
- o. *61. Are hemodialysis 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
- q. *62. When the hemodialysis 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
 - s. Chlorhexidine without alcohol
 - Chlorhexidine with alcohol (e.g., Chloarprep™, PDI Prevantics®)
 - u. Povidone-iodine (or tincture of iodine)
 - v. Sodium hypochlorite solution (e.g., ExSept®, Alcavis) without alcohol
 - w. Sodium hypochlorite solution (e.g., ExSept®, Alcavis) followed by alcohol
 - x. 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

F.3. Hemodialysis Catheters (continued)

- y. *63. 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
- z. a. If yes, what type of ointment is most commonly used? (select one)
 Bacitracin/gramicidin/polymyxin B (Polysporin® Triple) Gentamicin
 Bacitracin/polymyxin B (e.g., Polysporin®) Mupirocin
 Bacitracin/neomycin/polymyxin B (triple antibiotic) Povidone-iodine
 Other, specify: _____
- aa. *64. Who most often accesses hemodialysis catheters for treatment in your center? (select one)
 Nurse Technician Other, specify: _____
- bb. *65. Who most often performs hemodialysis exit site care in your center? (select one)
 Nurse Technician Other, specify: _____
- cc. *66. Are antimicrobial lock solutions used to **prevent** hemodialysis catheter infections in your center?
 Yes, for all catheter patients Yes, for some catheter patients No
- dd. a. If yes, which lock solution is most commonly used? (select one)
- ee. Sodium citrate Taurolidine
 Gentamycin Ethanol
 Vancomycin Multi-component lock solution or other, specify: _____
- ff. *67. 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
- gg. *68. Are any of the following routinely used for hemodialysis catheters in your center? (select all that apply)
- | | | |
|---|------------------------------|-----------------------------|
| Chlorhexidine dressing (e.g., Biopatch®, Tegaderm™ CHG) | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Other antimicrobial dressing (e.g., silver-impregnated) | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Antiseptic-impregnated catheter cap/port protector: | | |
| 3M™ Curoc™ Disinfecting Port Protectors | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| ClearGuard® HD end caps | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Antimicrobial-impregnated hemodialysis catheters | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
- hh. *69. Does your center provide hemodialysis catheter patients with supplies to allow for changing catheter dressings outside the dialysis center?
 Yes, routinely for all or most patients with a catheter Yes, only for select patients with a catheter No
- ii. *70. a. Does your center educate patients with hemodialysis catheters on how to shower with the catheter? (select the best response)
- jj. Yes, routinely for all or most patients with a catheter No, patients with hemodialysis catheters are instructed against showering
 Yes, only for select patients with a catheter No, education and instructions are not provided on this topic
- kk. b. Does your center provide hemodialysis catheter patients with a protective catheter cover (e.g., Shower Shield® Cath Dry™) to allow them to shower?
 Yes, routinely for all or most patients with a catheter
 Yes, only for select patients with a catheter
 No

Comments:



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