



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. 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) | | |
| | <input type="checkbox"/> Government | <input type="checkbox"/> Not for profit | <input type="checkbox"/> For profit |
| *2. | a. What is the location/hospital affiliation of your dialysis center? (choose one) | | |
| | <input type="checkbox"/> Freestanding | <input type="checkbox"/> Hospital based | <input type="checkbox"/> Freestanding but owned by a hospital |
| | b. If hospital-based or hospital-owned, is your center affiliated with a teaching hospital? | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| *3. | Is your facility accredited by an organization other than CMS? | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | a. If yes, specify (choose one- drop down) | | |
| | <input type="checkbox"/> Joint Commission | <input type="checkbox"/> National Dialysis Accreditation Committee | <input type="checkbox"/> Other (specify) _____ |
| *4. | a. What types of dialysis services does your center offer? (select all that apply) | | |
| | <input type="checkbox"/> In-center daytime hemodialysis | <input type="checkbox"/> In-center nocturnal hemodialysis | <input type="checkbox"/> Peritoneal dialysis <input type="checkbox"/> Home hemodialysis |
| | b. What patient population does your center serve? (select one) | | |
| | <input type="checkbox"/> Adult only | <input type="checkbox"/> Pediatric only | <input type="checkbox"/> 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? | | <input type="checkbox"/> Yes <input type="checkbox"/> 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? | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| *8. | Is there someone at your dialysis center in charge of infection control? | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | a. If yes, which best describes this person? (if >1 person in charge, select all that apply) | | |
| | <input type="checkbox"/> Hospital-affiliated or other infection control practitioner comes to our unit | | |
| | <input type="checkbox"/> Dialysis nurse or nurse manager | | |
| | <input type="checkbox"/> Dialysis center administrator or director | | |
| | <input type="checkbox"/> Dialysis education specialist | | |
| | <input type="checkbox"/> Patient care technician | | |
| | <input type="checkbox"/> Other, specify: _____ | | |



Outpatient Dialysis Center Practices Survey

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

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| *9. | Does your center provide dialysis services with Long Term Care Facilities (e.g., staff-assisted dialysis in nursing homes, skilled nursing facilities; not long-term acute care hospitals)? | <input type="checkbox"/> Yes | | <input type="checkbox"/> No |
| | a. If yes, how many facilities? _____ | | | |

| | | | | |
|------|---------------------------------------------------------------------------------------------------|------------------------------|--|-----------------------------|
| *10. | Is there a dedicated vascular access nurse/coordinator (either full or part-time) at your center? | <input type="checkbox"/> Yes | | <input type="checkbox"/> 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 1.75 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).

A.2. Isolation and Screening

| | | | | |
|------|----------------------------------------------------------------------|--------------------------------------------------------------|--|---------------------------------------------------|
| *11. | Does your center have capacity to isolate patients with hepatitis B? | | | |
| | <input type="checkbox"/> Yes, use hepatitis B isolation room | <input type="checkbox"/> Yes, use hepatitis B isolation area | | <input type="checkbox"/> No hepatitis B isolation |

| | | | | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------|-----------------------------------------------------------|
| *12. | Are patients routinely isolated or cohorted for treatment <u>within your center</u> for any of the following conditions? (if yes, select all that apply) | | | |
| | <input type="checkbox"/> No, none | <input type="checkbox"/> Hepatitis C | | <input type="checkbox"/> Active tuberculosis (TB disease) |
| | <input type="checkbox"/> Vancomycin-resistant <i>Enterococcus</i> (VRE) | | | |
| | <input type="checkbox"/> Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) | | <input type="checkbox"/> 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? a) If yes, when does this assessment most often occur? (select one) | <input type="checkbox"/> Yes | | <input type="checkbox"/> No |
| | <input type="checkbox"/> Before the patient enters the treatment area (e.g., at check-in or in the waiting room) | | | |
| | <input type="checkbox"/> Once the patient is seated in the treatment station | | | |
| | <input type="checkbox"/> Other (specify) _____ | | | |
| | <input type="checkbox"/> Other (specify) _____ | | | |

| | | | | |
|------|------------------------------------------------------------------------------------------------------------------|------------------------------|--|-----------------------------|
| *14. | Does your center routinely screen patients for latent tuberculosis infection (LTBI) on admission to your center? | <input type="checkbox"/> Yes | | <input type="checkbox"/> No |
|------|------------------------------------------------------------------------------------------------------------------|------------------------------|--|-----------------------------|

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? | <input type="checkbox"/> Yes | | <input type="checkbox"/> No |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--|-----------------------------|

| | | | | |
|------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--|-----------------------------|
| *16. | Does your center maintain records of the machine used for each patient's hemodialysis treatment for every treatment session? | <input type="checkbox"/> Yes | | <input type="checkbox"/> 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? | | | | | |
| | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Sometimes | <input type="checkbox"/> Rarely | <input type="checkbox"/> Never | <input type="checkbox"/> N/A – not pursued |



Outpatient Dialysis Center Practices Survey

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

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| *18. | How often is your center able to obtain a patient's microbiology lab records from a hospitalization? | | | | | |
| | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Sometimes | <input type="checkbox"/> Rarely | <input type="checkbox"/> Never | <input type="checkbox"/> N/A – not pursued |
| *19. | Which of the following infections in your peritoneal dialysis patients does your center routinely track? (select all that apply) | | | | | |
| | <input type="checkbox"/> Peritonitis | | <input type="checkbox"/> Peritoneal dialysis catheter site infection | | <input type="checkbox"/> Other (specify) _____ | |
| *20. | Which of the following infections and adverse events in your home hemodialysis patients does your center routinely track? (select all that apply) | | | | | |
| | <input type="checkbox"/> Bloodstream infection <input type="checkbox"/> Vascular access site infection | | <input type="checkbox"/> needle/access dislodgment <input type="checkbox"/> air embolism <input type="checkbox"/> catheter breakage or disconnection | | <input type="checkbox"/> 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

| | | | | | | |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------|-------|------------------------------|-----------------------------|
| *21. | Was your center operational during the first week of February? | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> 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: | _____ | | | | |
| *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? <i>Include only staff who had direct contact with dialysis patients or equipment:</i> _____ | | | | | |
| | 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

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



Outpatient Dialysis Center Practices Survey

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

b. The influenza (flu) vaccine for the current/most recent flu season? _____

*28. 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

*29. 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

*30. Of the MAINTENANCE, NON-TRANSIENT in-center hemodialysis PATIENTS from question 22a:

- 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: _____

*31. 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

*32. 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

*33. 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: _____

*34. 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: _____

Outpatient Dialysis Center Practices Survey

E. Dialysis Policies and Practices

E.1. Dialyzer Reuse

*35. 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

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

Conventional
 Ultrapure

*37. 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

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

*39. 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



Outpatient Dialysis Center Practices Survey

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

E.4. Injection Practices

| | |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *40. | What form of erythropoiesis stimulating agent (ESA) is most often used in your center? |
| | <input type="checkbox"/> Single-dose vial <input type="checkbox"/> Multi-dose vial <input type="checkbox"/> Pre-packaged syringe <input type="checkbox"/> N/A |
| | a. Is ESA from one single-dose vial or syringe administered to more than one patient? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| *41. | Where are medications <u>most commonly</u> drawn into syringes to prepare for patient administration? (choose one) |
| | <input type="checkbox"/> At the individual dialysis stations |
| | <input type="checkbox"/> On a mobile medication cart within the treatment area |
| | <input type="checkbox"/> At a fixed location within the patient treatment area (e.g., at nurses' station) |
| | <input type="checkbox"/> At a fixed location removed from the patient treatment area (not a room) |
| | <input type="checkbox"/> In a separate medication room |
| | <input type="checkbox"/> In a pharmacy |
| | <input type="checkbox"/> Other, specify: _____ |
| *42. | Do technicians administer any IV medications or infusates (e.g., heparin, saline) in your center? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| *43. | What form of saline flush is most commonly used? |
| | <input type="checkbox"/> Manufacturer pre-filled saline syringes |
| | <input type="checkbox"/> Flushes are drawn from single-use saline vials |
| | <input type="checkbox"/> Flushes are drawn from multi-dose saline vials |
| | <input type="checkbox"/> Flushes are drawn from the patient's designated saline bag used for dialysis |
| | <input type="checkbox"/> Flushes are drawn from the patient's dialysis circuit |
| | <input type="checkbox"/> Flushes are drawn from a common saline bag used for all patients |
| | <input type="checkbox"/> Other (specify): _____ |

E.5. Antibiotic Use

| | |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *44. | Does your center use the following means to restrict or ensure appropriate antibiotic use? |
| | a. Have a written policy on antibiotic use <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | b. Formulary restrictions <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | c. Antibiotic use approval process <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | d. Automatic stop orders for antibiotics <input type="checkbox"/> Yes <input type="checkbox"/> No |
| *45. | In your center, how often are antibiotics administered for a suspected bloodstream infection <u>before</u> blood cultures are drawn (or without performing blood cultures)? |
| | <input type="checkbox"/> Always <input type="checkbox"/> Often <input type="checkbox"/> Sometimes <input type="checkbox"/> Rarely <input type="checkbox"/> Never |

E.6. Prevention Activities

| | |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *46. | Has your center participated in any national or regional infection prevention-related initiatives in the past year? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | a. If yes, what is the <u>primary focus</u> of the initiative(s)? (if >1 initiative, select all that apply) |
| | <input type="checkbox"/> Catheter reduction |
| | <input type="checkbox"/> Hand hygiene |
| | <input type="checkbox"/> Bloodstream infection prevention |
| | <input type="checkbox"/> Patient education/engagement for infection prevention |
| | <input type="checkbox"/> Increase vaccination rates |
| | <input type="checkbox"/> Decrease/improve use of antibiotics |
| | <input type="checkbox"/> Improve general infection control practices |
| | <input type="checkbox"/> Improve culture of safety |



Outpatient Dialysis Center Practices Survey

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

*47. 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

*48. Does your center follow [CDC-recommended Core Interventions](#) to prevent bloodstream infections in hemodialysis patients?
 Yes, all Yes, some No, none

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

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

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

E.7. Peritoneal Dialysis

*52. 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

*53. Of the MAINTENANCE, NON-TRANSIENT hemodialysis patients from question 22 (22a + 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., catheter-graft hybrid): _____

F.2. Arteriovenous (AV) Fistulas or Grafts

*54. Before prepping the fistula or graft site for rope-ladder cannulation, what is the site most often cleansed with?



Outpatient Dialysis Center Practices Survey

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

- Soap and water Alcohol-based hand rub Antiseptic wipes Other, specify: _____ Nothing

Page 6 of 9

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

*55. 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®)
- 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/spongestick
- Pre-packaged pad
- Other, specify: _____
- N/A

*56. 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., 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



Outpatient Dialysis Center Practices Survey

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

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

Yes No

Page 7 of 9

F.3. Hemodialysis Catheters

*57. 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
- f. 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)
- Pre-packaged swabstick/spongystick
- Pre-packaged pad
- Other, specify: _____
- N/A

o. *58. 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

q. *59. 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)

- s. Alcohol
- t. Chlorhexidine without alcohol
- u. Chlorhexidine with alcohol (e.g., Chloarprep™, PDI Prevantics®)
- v. Povidone-iodine (or tincture of iodine)
- w. Sodium hypochlorite solution (e.g., ExSept®, Alcavis) without alcohol
- x. Sodium hypochlorite solution (e.g., ExSept®, Alcavis) followed by alcohol
- y. Other, specify: _____
- z. Nothing

a. What form of this antiseptic/disinfectant is used at the exit site?

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

*60. 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)

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



Outpatient Dialysis Center Practices Survey

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

Other, specify: _____

*61. 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: _____

| F.3. Hemodialysis Catheters (continued) | | | |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------|
| *62. | Are antimicrobial lock solutions used to prevent hemodialysis catheter infections in your center? | | |
| | <input type="checkbox"/> Yes, for all catheter patients | <input type="checkbox"/> Yes, for some catheter patients | <input type="checkbox"/> No |
| | a. If yes, which lock solution is most commonly used? (select one) | | |
| | <input type="checkbox"/> Sodium citrate | <input type="checkbox"/> Taurolidine | |
| | <input type="checkbox"/> Gentamicin | <input type="checkbox"/> Ethanol | |
| | <input type="checkbox"/> Vancomycin | <input type="checkbox"/> Multi-component lock solution or other, specify: _____ | |
| *63. | Are needleless closed connector devices (e.g., Tego®, Q-Syte™) used on hemodialysis catheters in your center? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| | a. If yes, for which patients: | | |
| | <input type="checkbox"/> In-center hemodialysis patients only | | |
| | <input type="checkbox"/> Home hemodialysis patients only | | |
| | <input type="checkbox"/> Both | | |
| *64. | 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 |
| *65. | a. Does your center provide catheter patients with supplies to allow for changing catheter dressings outside the dialysis center? | | |
| | <input type="checkbox"/> Yes, routinely | <input type="checkbox"/> Yes, only in certain circumstances | <input type="checkbox"/> No |
| | b. Does your center educate patients with catheters on how to shower with the catheter? (select the best response) | | |
| | <input type="checkbox"/> Yes, routinely for all or most patients with a catheter | | |
| | <input type="checkbox"/> Yes, only for select patients with a catheter | | |
| | <input type="checkbox"/> No, patients with catheters are instructed against showering | | |
| | <input type="checkbox"/> No, education and instructions are not provided on this topic | | |
| | <input type="checkbox"/> Other (specify) _____ | | |
| | c. Does your center provide catheter patients with a protective catheter cover (e.g. Shower Shield®, Cath Dry™) to allow them to shower? | | |
| | <input type="checkbox"/> Yes, routinely | <input type="checkbox"/> Yes, only in certain circumstances | <input type="checkbox"/> No |



Outpatient Dialysis Center Practices Survey

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

Comments:

Disclaimer: Use of trade names and commercial sources is for identification only and does not imply endorsement.