## §494.40

Records Administration (NARA). Copies may be obtained at the CMS Information Resource Center. For information on the availability of this material at NARA, call 202-741-6030, or goto:

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- (3) Patient isolation procedures to minimize the spread of infectious agents and communicable diseases; and
- (4) Maintaining procedures, in accordance with applicable State and local laws and accepted public health procedures, for the—
- (i) Handling, storage, and disposal of potentially infectious waste; and
- (ii) Cleaning and disinfection of contaminated surfaces, medical devices, and equipment.
- (b) Standard: Oversight. The facility must—
- (1) Monitor and implement biohazard and infection control policies and activities within the dialysis unit;
- (2) Ensure that clinical staff demonstrate compliance with current aseptic techniques when dispensing and administering intravenous medications from vials and ampules; and
- (3) Require all clinical staff to report infection control issues to the dialysis facility's medical director (see §494.150 of this part) and the quality improvement committee.
- (c) Standard: Reporting. The facility must report incidences of communicable diseases as required by Federal, State, and local regulations.

## § 494.40 Condition: Water and dialysate quality.

The facility must be able to demonstrate the following:

(a) Standard: Water purity. Water and equipment used for dialysis meets the water and dialysate quality standards and equipment requirements found in the Association for the Advancement of Medical Instrumentation (AAMI) "Dialysate for publication. dialysis," ANSI/AAMI RD52: 2004. The Director of the Federal Register approves this incorporation by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. This publication is available for inspection at the CMS Information Resource Center, 7500 Security Boulevard, Central Building, Baltimore, MD or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to: <a href="http://www.archives.gov/federal\_register/code\_of\_regulations/ibr\_locations.html">http://www.archives.gov/federal\_register/code\_of\_regulations/ibr\_locations.html</a>. Copies may be purchased from the Association for the Advancement of Medical Instrumentation, 3300 Washington Boulevard, Suite 400, Arlington, VA 22201–4598.

(b) Standard: Chlorine/chloramines. (1) The water treatment system must include a component or carbon tank which removes chlorine/chloramine along with a backup component or second carbon tank in series for chlorine/chloramine removal;

(2)(i) If the test results from the port of the initial component or carbon tank referred to in section 6.2.5 of AAMI RD52:2004 are greater than 0.5 mg/L for free chlorine or 0.1 mg/L for chloramines, or equal to or greater than 0.1 mg/L of total chlorine, then the second component or carbon tank which removes chlorine/chloramine must be tested;

- (ii) If the test results from the last component or carbon tank are greater than the parameters for chlorine or chloramine specified in paragraph (b)(2)(i) of this section the facility must—
- (A) Immediately take corrective action to bring chlorine or chloramine levels into compliance with paragraph (b)(2)(i) of this section and confirm through testing that the corrective action has been effective, or terminate dialysis treatment to protect patients from exposure to chlorine/chloramine;
- (B) Only allow use of purified water in a holding tank, if appropriate, and if testing shows water chlorine or chloramine levels that are in compliance with paragraph (b)(2)(i) of this section; and
- (C) Immediately notify the medical director; and
- (D) Take corrective action to ensure ongoing compliance with acceptable chlorine and chloramine levels as described in paragraph (b)(2)(i) of this section.
- (c) Standard: Corrective action plan. Water testing results including, but not limited to, chemical, microbial, and endotoxin levels which meet AAMI

action levels or deviate from the AAMI standards must be addressed with a corrective action plan that ensures patient safety.

- (d) Standard: Adverse events. A dialysis facility must maintain active surveillance of patient reactions during and following dialysis. When clinically indicated (for example, after adverse patient reactions) the facility must—
- (1) Obtain blood and dialysate cultures and endotoxin levels;
- (2) Evaluate the water purification system; and
  - (3) Take corrective action.
- Standard: In-center hemodialusis sustems. preconfigured When using a preconfigured, FDA-approved hemodialysis system designed, tested and validated to yield AAMI quality (which includes standards for chemical and chlorine/chloramine testing) water and dialysate, the system's FDA-approved labeling must be adhered to for machine use and monitoring of the water and dialysate quality. The facility must meet all AAMI RD52:2004 requirements for water and dialysate. Moreover, the facility must perform bacteriological and endotoxin testing on a quarterly, or more frequent basis, as needed, to ensure that the water and dialysate are within AAMI limits.

## § 494.50 Condition: Reuse of hemodialyzers and bloodlines.

- (a) Standard: General requirements for the reuse of hemodialyzers and bloodlines. Certain hemodialyzers and bloodlines—
- (1) May be reused for certain patients with the exception of Hepatitis B positive patients;
- (2) Must be reused only for the same patient; and
- (3) Must be labeled for multiple reuse in accordance with the premarket notification provisions of section 510(k) of the Food, Drug, and Cosmetics Act and 21 CFR 876.5860.
- (b) Standard: Reprocessing requirements for the reuse of hemodialyzers and bloodlines. A dialysis facility that reuses hemodialyzers and bloodlines must adhere to the following reprocessing guidelines:
- (1) Meet the requirements of AAMI published in "Reuse of Hemodialyzers," third edition, ANSI/AAMI RD47:2002

and RD47:2002/A1:2003. The Director of the Federal Register approves this incorporation by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. This publication is available for inspection at the CMS Information Resource Center, 7500 Security Boulevard, Central Building, Baltimore, MD or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal register/

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- (2) Reprocess hemodialyzers and bloodlines—
- (i) By following the manufacturer's recommendations; or
- (ii) Using an alternate method and maintaining documented evidence that the method is safe and effective.
- (3) Not expose hemodialyzers to more than one chemical germicide, other than bleach (used as a cleaner in this application), during the life of the dialyzer. All hemodialyzers must be discarded before a different chemical germicide is used in the facility.
- (c) Standard: Monitoring, evaluation, and reporting requirements for the reuse of hemodialyzers and bloodlines. In addition to the requirements for hemodialyzer and bloodline reuse specified in paragraphs (a) and (b) of this section, the dialysis facility must adhere to the following:
- (1) Monitor patient reactions during and following dialysis.
- (2) When clinically indicated (for example, after adverse patient reactions), the facility must—
- (i) Obtain blood and dialysate cultures and endotoxin levels; and
- (ii) Undertake evaluation of its dialyzer reprocessing and water purification system. When this evaluation suggests a cluster of adverse patient reactions is associated with hemodialyzer reuse, the facility must suspend reuse of hemodialyzers until it is satisfied the problem has been corrected.
- (iii) Report the adverse outcomes to the FDA and other Federal, State or