

3. Centers for Disease Control. Measles-Washington, 1990. *MMWR* 1990;39:473-476.
4. Atkinson WL, Markowitz LE, Adams NC, Seastrom GR. Transmission of measles in medical settings-United States, 1985-1989. *Am J Med* 1991;91(suppl 38):320S-324S.
5. Farizo KM, Stehr-Green PA, Simpson DM, Markowitz LE. Pediatric emergency room visits: a risk factor for acquiring measles. *Pediatrics* 1991;87:74-79.
6. Centers for Disease Control. Measles outbreak-Washington, 1989: failure of a delayed post-exposure prophylaxis with vaccine. *MMWR* 1990;39:617-619.
7. Atkinson W. Measles and health care workers. Pediatric optional education course. Presented at the Nineteenth Annual Conference and International Meeting, Association for Practitioners in Infection Control: San Francisco, CA; June 5, 1992.
8. Cabinet for Human Resources, Department for Health Services, Division of Epidemiology. Measles outbreak in Jefferson County, Kentucky. *Kentucky Epidemiologic Notes and Reports* 1991;26:1-2.
9. Sellick J, Longbine D, Schifeling R, Mylotte J. Screening of hospital employees for measles immunity is more cost-effective than blind immunization. *Ann Intern Med* 1992;116:982-984.
10. Houck P, Scott-Johnson G, Krebs L. Measles immunity among community hospital employees. *Infect Control Hosp Epidemiol* 1991;12:663-668.
11. Increase in rubella and congenital rubella syndrome-United States, 1988-1990. *MMWR* 1991;40:93-99.
12. Centers for Disease Control. Rubella prevention. Recommendations of the Immunization Practices Advisory Committee (ACIP). *MMWR* 1990;39(no. RR-15):1-18.
13. Ammari L, Bell L, Hodinka R. Secondary measles vaccine failure in healthcare workers exposed to infected patients. *Infect Control Hosp Epidemiol* 1993;14:81-86.

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## FDA Issues Alert on Hemodialysis Water Quality Systems

by **Gina Pugliese, RN, MS**  
Medical News Editor

The Food and Drug Administration (FDA) has sent a Safety Alert to hemodialysis personnel and water or dialysate service contractors informing them of a recent incident in which three hemodialysis patients died and several others were hospitalized after exposure to high levels of fluoride in the dialysate. In the recent inci-

dent described in the August 19, 1993, alert, the fluoride concentration in the dialysate was reported to be 15 to 25 parts per million (ppm). The American National Standards Institute (ANSI) standard identifies 0.2 ppm as the acceptable level of fluoride in dialysate.

The FDA has stated that "the recent incident underscores the need to continuously monitor the quality of water in hemodialysis systems." The FDA also urges per-

sonnel involved in providing hemodialysis to verify that the dialysis water is safe and that an adequate, continuous monitoring system is in place. For further information about the hemodialysis safety alert, contact A.W. Thomas, Office of Training and Assistance (HFZ-250), CDRH, Rockville, MD 20857. FAX (301) 443-8810.