The three demonstration projects sought to evaluate patient acceptance and the feasibility of making rapid HIV testing a routine part of health care offered in EDs and to ensure that patients with confirmed HIV infection received appropriate follow-up health care. Data from January-December 2005 were analyzed from the New York and Los Angeles EDs; data from April 2005–March 2006 were analyzed from the Oakland ED. These two periods were chosen because they provided at least 12 months of data when all three testing programs were operating at full capacity. Testing protocols at the three sites were similar. All sites placed posters and brochures in waiting rooms and registration areas advertising the availability of free rapid HIV screening. Persons who, when asked, told project staff members that they were HIV negative or did not know their HIV status and who met project consent requirements (i.e., aged ≥18 years in New York and Los Angeles or aged ≥12 years in Oakland) were offered testing on an opt-in basis (i.e., patients were offered testing and had tests performed if they agreed to be tested and provided specific written consent). In all three EDs, preliminary testing was conducted using rapid HIV test kits (OraQuick® Advance™ Rapid HIV-1/2 Antibody Tests [OraSure Technologies, Bethlehem, Pennsylvania]*) with oral mucosal transudate specimens or finger-stick whole blood specimens. Patients who had positive rapid tests were given risk-reduction counseling and asked to provide a whole blood or oral specimen for confirmatory testing by Western blot.

Testing procedures for the three sites differed by the location within the ED where HIV testing was offered and by the personnel responsible for testing and counseling. At the Los Angeles and New York sites, standard pretest information, HIV testing, and test results were provided exclusively by HIV counselors hired specifically to offer and provide these services in the ED. Counselors usually offered HIV testing (in a private room) to the next available patient in the ED waiting area but sometimes provided counseling and testing to patients referred to them by ED physicians.

At the Oakland ED, a different model was used to increase the number of persons offered testing. At intake in the ED, the triage nurse attempted to offer testing to all eligible patients (i.e., those who, when asked, said they were HIV negative or did not know their HIV status and who met consent requirements). ED staff members (usually treatment nurses), obtained written consents from those who agreed to testing, provided pretest information (i.e., an informational handout), and administered the HIV tests, in addition to their usual responsibilities.

In New York and Los Angeles, both negative and positive rapid test results were provided to patients by HIV counselors; in Oakland, negative rapid test results were provided by nurses, but positive rapid results were provided by HIV counselors (on weekdays) and ED physicians (during nights and on weekends). At all three sites, confirmatory specimens were collected immediately upon receipt of a positive rapid test result; confirmatory results were provided approximately 1 week later by HIV counselors either in the ED (Los Angeles and New York) or at hospital-affiliated clinics (Los Angeles, New York, and Oakland). At all three sites, persons with confirmed positive HIV test results were provided further HIV risk-reduction information, partner counseling and referral services, and medical care appointments. Consent forms, counseling, and other services were made available in English and Spanish. Staff members assisted patients with referrals to providers and services elsewhere if the patients were not local residents or requested services at other facilities. In New York and
Los Angeles, project staff members performed chart reviews to collect follow-up data. In Oakland, information was collected through an active follow-up process involving project staff from the ED and a linkage coordinator from an affiliated HIV clinic.

During the study periods, HIV testing was offered to 34,627 (18.6%) of 186,415 persons who sought care at the three participating EDs. The proportion of ED patients offered HIV testing varied by site: 47.7% in Oakland, 3.6% in Los Angeles, and 2.1% in New York. Overall, 19,556 (56.5%) of those offered testing agreed to be tested; however, the proportion of persons accepting testing varied by site: 98.3% in Los Angeles, 84.0% in New York, and 52.8% in Oakland. The proportion of patients actually tested during the ED visit among those who agreed to testing also varied by site: 99.8% in Los Angeles, 99.4% in New York, and 38.5% in Oakland. Among the 97 patients with newly diagnosed HIV infection, 85 (88%) were then linked to health-care services, defined as having at least one medical follow-up visit for HIV care and treatment.

The proportion of tested patients with newly diagnosed HIV infection varied by site: 0.8% in Los Angeles, 1.0% in Oakland, and 1.5% in New York. Patients tested at the three sites differed by sex, age, race/ethnicity, and HIV test result. Overall, by racial/ethnic group, among the 97 with newly diagnosed HIV infection, 50 (52%) were non-Hispanic black, 28 (29%) were Hispanic, 12 (12%) were non-Hispanic white, four (4%) were Asian/Pacific Islander, and the race/ethnicity for three patients was unknown. Risk information was available for 95 (98%) of those with newly diagnosed HIV infection; 49 (52%) of those persons reported having at least one of the following risks for HIV transmission during the previous 12 months: male-to-male sexual contact, injection-drug use, commercial sex work, or a sexually transmitted disease (STD) diagnosis.

**CDC Editorial Note:** The findings in this report suggest that offering HIV testing as an integrated part of routine health-care services in EDs, rather than relying on a clinical- or risk-based approach to testing, is a feasible strategy for identifying persons with previously undiagnosed HIV infection who might not otherwise access HIV-testing services. The majority of patients (56.5%) offered HIV testing at the three sites agreed to be tested, indicating that opt-in testing is acceptable in ED settings. If a risk-based approach to testing (e.g., testing only those persons reporting male-to-male sexual contact, injection-drug use, commercial sex work, or STD diagnoses) had been used in these three ED demonstration projects, 48% of the persons with newly diagnosed HIV infection would not have been offered testing. Overall, 88% of persons with newly diagnosed HIV infection were linked to health-care services after diagnosis, a proportion that compares favorably with previous reports.

Substantially higher proportions of patients were offered HIV testing and subsequently tested at the Oakland ED than at the Los Angeles and New York EDs. Using a counselor-based approach to testing resulted in >90% of patients accepting testing when offered at the Los Angeles and New York sites; however, the number of persons offering testing (<=4%) in these EDs was limited by the number of available HIV counselors. Nonetheless, the use of dedicated counselors in EDs enabled the Los Angeles and New York sites to increase the number of patients tested for HIV infection from 21 in 2003 to 1,709 in 2005 and from 415 in 2003 to 1,288 in 2005, respectively. In Oakland, the use of existing staff members to offer testing resulted in approximately half of ED patients offered testing; however, only 52.8% of those offered testing accepted it, and only 38.5% of those who accepted testing were actually tested, largely because of limited staff. Persons who agreed to testing but could not be tested during their ED visit in Oakland were referred to other hospital departments, clinics, or community-based organizations for testing. Despite the low acceptance of testing, the Oakland testing approach was most feasible for maximizing the number of patients tested. The number of ED patients tested for HIV infection increased from 307 in 2004 to 6,368 during April 2005–March 2006.

Revised CDC recommendations for HIV testing in health-care settings were published in September 2006. Revised recommendations call for HIV testing to become a routine part of medical services using a voluntary, opt-out approach to ensure that persons with HIV infection are identified and linked to care and prevention services early in the course of their infection and to foster improved long-term prognosis and reduced transmission to others. Under the opt-out approach recommended in the revised guidelines, patients are notified that HIV testing is a routine part of services offered to all patients aged 13-64 years and will be performed unless the patient declines to be tested. Such an approach has been accepted and effective among pregnant women. Several analyses have supported the cost-effectiveness of routine testing in clinical settings, even in communities with a low prevalence of HIV infection. In addition, routine testing might reduce the stigma associated with identifying persons for testing on the basis of actual or perceived risk behaviors. Although this report describes HIV testing offered to patients in EDs on a voluntary opt-in basis, it provides insight into methods that could be used to implement testing using an opt-out approach.

The findings in this report are subject to at least two limitations. First, HIV testing was not offered to all patients or to a statistical sample of patients visiting the participating sites; therefore, those who tested might not be rep...
Elemental Mercury Releases Attributed to Antiques—New York, 2000-2006

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2 figures omitted

METALLIC (i.e., ELEMENTAL) MERCURY, a heavy, silvery odorless liquid, is in common household products such as thermometers and thermostats. Lesser-known household sources of elemental mercury include certain antique or vintage items such as clocks, barometers, mirrors, and lamps. Over time, the mercury in these items can leak, particularly as seals age or when the items are damaged, dropped, or moved improperly. Vacuuming a mercury spill or vaporization from spill-contaminated surfaces such as carpets, floors, furniture, mops, or brooms can increase levels of mercury in the air, especially in enclosed spaces. Environmental sampling conducted after releases of elemental mercury have indicated substantial air concentrations that were associated with increases in blood and urine mercury levels among exposed persons. In 1990, the Agency for Toxic Substances and Disease Registry (ATSDR) created the Hazardous Substances Emergency Events Surveillance (HSEES) system, a multistate health department surveillance system designed to help reduce morbidity and mortality associated with hazardous substance events. This report describes antiques-related mercury releases reported to HSEES, all of which occurred in New York state during 2000-2006. Although none of these spills resulted in symptoms or acute health effects, they required remediation to prevent future mercury exposure. The findings underscore the need for caution when handling antiques containing elemental mercury and the need for proper remediation of spills.

Case Reports

Antique pendulum wall clock, Delaware County, New York. In 2006, as an antique store employee was cleaning, he placed an antique pendulum wall clock on the floor, spilling approximately 150 mL of mercury. The employee then moved the pendulum to a bucket and tried to vacuum the spill with a household vacuum cleaner. He dialed 911, and emergency responders were dispatched. That employee and another employee evacuated the store as the fire department, a hazardous materials (HazMat) team, and the state environmental agency responded. The HazMat team removed carpeting and collected all visible mercury beads. The carpeting and vacuum cleaner were discarded as hazardous waste. Air measurements taken the next day revealed background levels of mercury at floor level in the area that had been cleaned. Air measurements throughout the room indicated mercury in the floorboards beneath a radiator. Plastic was hung over the doorway to contain the room air until a second cleanup was conducted. The floor was mopped with a thiosulfate solution. The cleanup contractor took air samples to confirm that the mercury cleanup was complete.

Antique clock, New York City, New York. In 2005, 30-330 mL of mercury spilled from a 15-inch column in an antique clock in an antiques store. The fire department and city environmental agency responded. As a precaution, four workers were transported to a medical facility for evaluation. The

References

1. Information regarding sensitivity (99.3%) and specificity (99.8%) for the OraQuick Advance test is available at http://www.orsare.com/uploaded/398.pdf. The OraQuick Advance rapid test requires 20 minutes to process a specimen. Test results must be read after the 20-minute processing period has elapsed, but not more than 40 minutes after the test was initiated. A multistate health department surveillance system designed to help reduce morbidity and mortality associated with hazardous substance events. This report describes antiques-related mercury releases reported to HSEES, all of which occurred in New York state during 2000-2006. Although none of these spills resulted in symptoms or acute health effects, they required remediation to prevent future mercury exposure. The findings underscore the need for caution when handling antiques containing elemental mercury and the need for proper remediation of spills.

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