Exposure to hazardous drugs may occur through inhalation, skin absorption, ingestion, or injection. Adverse health effects from hazardous drug exposure may include harm to internal organs, damage to the reproductive system, genetic damage, birth defects, and cancer. About 8 million U.S. healthcare workers are potentially exposed to hazardous drugs, including pharmacy and nursing personnel, physicians, environmental services workers, workers in research laboratories, veterinary care workers, and shipping and receiving personnel.
Starting in 2000, the National Institute for Occupational Safety and Health (NIOSH) began working with multiple partners and stakeholders to address the issue of occupational exposure to hazardous drugs. The NIOSH Hazardous Drug Committee—with representatives from nursing and pharmacy professional associations, federal agencies, pharmaceutical companies, health and safety professionals, manufacturers of safety equipment, and academia—developed recommendations for how to minimize exposure when working with hazardous drugs.

**Impact**

In order to disseminate these recommendations, in 2004 NIOSH published a NIOSH Alert and list of hazardous drugs with active input from partners in the healthcare industry, the pharmaceutical industry, and federal agencies. The list was updated in 2010 and will be updated periodically as new drugs become available. This list is a unique resource—the only current government-supported list of hazardous drugs in the U.S.—and is heavily referenced by workers throughout the healthcare industry. Since 2004 the website containing this information has been accessed over 200,000 times, with 27,000 of these visits in the 9 month period from October 2010 to June 2011.

The value of this NIOSH Alert and list is demonstrated by the response it has received. In April 2011 the state of Washington passed legislation directing the Washington Department of Labor and Industry to use this information as the basis for statewide rules on the handling of hazardous drugs. In that same month, a joint letter was issued by the Occupational Safety and Health Administration, The Joint Commission, and NIOSH to all hospitals and healthcare employers in the nation. The letter describes the NIOSH Alert and hazardous drug list, and encourages employers to use this resource to protect their employees. Because this information is easily accessible at www.cdc.gov/niosh/topics/hazdrug/, healthcare workers can become active collaborators with employers in reducing their exposure to these occupational hazards, decreasing risks to their own health while they care for the health of others.

Visit the NIOSH Web site (www.cdc.gov/niosh) for more information about Hazardous Drug research. Authors of the NIOSH List of Antineoplastic and Other Hazardous Drugs in Healthcare Settings—Barbara MacKenzie, Thomas Connor, D. Gayle DeBord, James O’Callaghan, and Douglas Trout; NIOSH—received a 2011 Bullard-Sherwood r2p Award in the Knowledge category.

1-7 For a complete list of references, see www.cdc.gov/niosh/docs/2011-189/.

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