Detect harmful surface contamination in minutes, not weeks

Introducing the BD™ HD Check system, the first and only rapid detection test for select hazardous drugs.
Numerous studies show antineoplastic drugs can cause serious acute and chronic health complications.

Detrimental effect on DNA
- 2.5-fold to 5-fold increase in total chromosomal aberrations among pharmacists and nurses.\(^1,2\)

Increased rates of cancer
- 2.8-fold increase in nonmelanoma skin cancer and a 3.7-fold increase in non-Hodgkin lymphoma among pharmacy techs.\(^3\)
- Oncology nurses have shown an increase in relative risk of leukemia.\(^4\)

Reproductive issues
- 3.5-fold increase in risk of miscarriage among staff handling antineoplastic drugs, along with an increase in risk of malformations in offspring.\(^5,6\)

Damage to internal organs
- Increased risk of liver damage among nurses handling antineoplastic drugs.\(^7\)

Providing life-saving treatments can put your staff at risk

Anyone who handles hazardous drugs during transportation, preparation, administration or waste disposal may be at risk for exposure.
Contamination may be surprisingly widespread

Surface contamination with hazardous drugs still occurs frequently, despite well-established safety guidelines and standards from USP, NIOSH, OSHA and others.\(^8,9\)

- Surface, airfoil or floor in front of BSC
- Surface and floor in front of CACI
- Floor in pharmacy
- Pass-through (inside and outside, both for CACI and from inside the pharmacy)
- Countertops
- Equipment
- Storage trays
- Drug vials
- Door handles, doorknobs, other high-touch areas
- Computer keyboard/mouse

✓ Inadvertent spread of contamination can put hospital personnel at risk through various routes, including inhalation, dermal contact and ingestion.\(^11\)

BSC, biological safety cabinet; CACI, compounding aseptic containment isolator; NIOSH, National Institute for Occupational Safety and Health; OSHA, Occupational Safety and Health Administration; USP, United States Pharmacopeia
Routine monitoring is recommended to validate engineering controls and minimize hazardous drug exposure\textsuperscript{8,12}

Current USP <797>, new USP <800> standards and other safe handling guidelines recommend routine testing, as needed, to check for hazardous residue on various surfaces and verify containment.\textsuperscript{13}

**In a 15-month study investigating wipe sample monitoring at regular intervals\textsuperscript{8}:**

- 61\% of wipe samples (N=1,269) were positive for contamination at baseline.
- In the control group, contamination was tested at cycle one and cycle five.
- In the monitoring group, contamination was tested at all five cycles.

![Reduction in contamination over five cycles\textsuperscript{8}]

Almost 7 out of 10 participating pharmacies stated that they had changed or would change their work procedures as a consequence of these findings.\textsuperscript{8}
Detect surface contamination in less than 10 minutes with the BD HD Check system

✓ Provides easy-to-read results, enabling immediate corrective action to be taken.
✓ Facilitates routine testing with the convenience of a handheld design.
✓ Tests for select commonly used antineoplastic agents.
✓ Evaluates effectiveness of safe handling processes.
✓ Enables you to track contamination levels over time with more frequency.
✓ Offers a simple way to help justify quality control investments and safe handling compliance efforts.
✓ Adapted from lateral flow immunoassay technology.

Conventional testing methods can be time consuming, making regular monitoring a challenge.12
BD HD Check system: a revolution in hazardous drug detection

- Current guidelines and standards recommend routine monitoring to help improve environmental quality and control.
- The BD HD Check system detects select hazardous drugs in less than 10 minutes to help facilitate routine monitoring and evaluate your institution’s safe handling practices.

Order today— Together let’s keep a check on surface contamination

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Speak to your BD representative or visit bd.com/HDCheck to learn more.

References:

BD, Franklin Lakes, NJ, 07417, U.S.

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