PROGRAMMING INSTRUCTIONS APPEAR IN BLUE.

|  |  |  |  |
| --- | --- | --- | --- |
|  | During your career, how long have you compounded antineoplastic agents? |  | * Less than one year
* 1-5 years
* 6-10 years
* 11-20 years
* More than 20 years
 |
|  |
|  | What training have you received on the safe handling of antineoplastic agents? **Please ✓ all that apply.** |  | * American Society of Health-System Pharmacists (ASHP) Oncology Pharmacy Development course
* National Pharmacy Technician Association (NPTA) Best Practices for Safe Handling Hazardous Medications in the Pharmacy
* Oncology Nurses Society (ONS) Safe Handling of Hazardous Drugs course
* ONS Chemotherapy and Biotherapy course
* ChemoTEQTM Safe Handling of Hazardous Drugs Training
* Other (Please specify):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* I have not received training 🡺 GO to Question 4
 |
|  |
|  | When was the last time you received training on the safe handling of antineoplastic agents?  |  | * Within past 12 months
* More than 12 months ago
 |
|  |
| 1.
 | How familiar are you with the following guidance documents on the safe handling of antineoplastic agents? |  | Very | Somewhat | Not at All |
| a. ASHP guidelines for handling hazardous drugs |  | 🔿 | 🔿 | 🔿 |
| b. NIOSH Alert on Preventing Exposures to Antineoplastic Agents and Other Hazardous Drugs |  | 🔿 | 🔿 | 🔿 |
| c. ONS Safe Handling of Hazardous Drugs |  | 🔿 | 🔿 | 🔿 |
| d. Occupational Safety and Health Administration (OSHA) guidelines for the management of antineoplastic drugs |  | 🔿 | 🔿 | 🔿 |
|  |
| If you work for more than one employer, the following questions apply to your primary employer, i.e., the one for which you typically work the most hours. If you are self-employed, consider yourself the employer. |
|  |
|  | Does your employer have procedures that address safe compounding of antineoplastic agents? |  | * + Yes
	+ No
	+ I don’t know
 |
|  |
|  |

|  |  |
| --- | --- |
|  | During the past 7 calendar days, which of the following antineoplastic agents did you compound? **Please ✓ all that apply.**display calendar highlighting the past 7 calendar days. applies to all questions with ‘in the past 7 calendar days.  |
|  |
|  | * Aldesleukin
* Alemtuzumab
* Alitretinoin
* Altretamine
* Aminoglutethimide
* Amifostine
* Amsacrine
* Anastrozole
* Arsenic trioxide
* Asparginase
* Azacitidine
* BCG live
* Bevacizumab
* Bexarotene
* Bicalutamide
* Bleomycin
* Bortezomib
* Busulfan
* Capecitabine
* Carboplatin
* Carmustine
* Cetuximab
* Chlorambucil
* Cisplatin
* Cladribine
* Cyclophosphamide
* Cytarabine
* Dacarbazine
* Dactinomycin
* Daunorubicin
* Denileukin
* Docetaxel
* Doxorubicin
* Epirubicin
* Estramustine
* Etoposide
* Exemestane
 | * Floxuridine
* Fludarabine
* Fluoxymesterone
* Flutamide
* Fluorouracil
* Fluvestrant
* Gemcitabine
* Gemtuzumab ozogamicin
* Goserelin
* Hydroxyurea
* Ibritumomab Tiuxetan
* Idarubicin
* Ifosfamide
* Imatinib mesylate
* Interferon Alfa
* Irinotecan
* Lapatinib
* Lenalidomide
* Letrozole
* Leuprolide
* Levamisole
* Lomustine
* Megestrol
* Melphalan
* Mercaptopurine
* Merchlorethamine
* Methotrexate
* Mitomycin-C
* Mitotane
* Mitoxantrone
* Motexafin gadolinium
* Nilutamide
* Oprelvekin
* Oxaliplatin
 | * Paclitaxel
* Palifermin
* Pegaspargase
* Pemetrexed
* Pentostatin
* Plicamycin
* Procarbazine
* Raloxifene
* Rituximab
* Sargramostim
* Sorafenib
* Streptozocin
* Sunitinib
* Tamoxifen
* Temozolomide
* Teniposide
* Thalidomide
* Thioguanine
* Thiotepa
* Topotecan
* Toremifene
* Trastuzumab
* Trimetrexate
* Tretinoin
* Valrubicin
* Vinblastine
* Vincristine
* Vinorelbine
* Investigational compounds (not yet named)
* Other (Please specify up to 2 more antineoplastic agents):

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

|  |  |  |  |
| --- | --- | --- | --- |
|  | During the past 7 calendar days, on how many days did you compound antineoplastic agents? |  | * + 1 day
	+ 2 days
	+ 3 days
	+ 4 days
	+ 5 days
	+ 6 days
	+ 7 days
 |
|  |
| 1.
 | During the past 7 calendar days, what was the total number of doses of antineoplastic agents that you compounded? |  | * + 1-5 doses
	+ 6-10 doses
	+ 11-20 doses
	+ 21-40 doses
	+ More than 40 doses
 |
|  |
|  | During the past 7 calendar days, the total number of doses of antineoplastic agents you compounded was... |  | * …more doses than usual
* …fewer doses than usual
* …about the same number of doses as usual
 |
|  |
| 1.
 | Of the total number of antineoplastic drug doses you compounded during the past 7 calendar days…  |  |  |
| a. …what percent was liquid? |  | \_\_\_\_\_\_\_ %IF 100%, SKIP QUESTION 18 |
| b. …what percent were tablets or capsules?   |  | \_\_\_\_\_\_\_% FILL IN DIFFERENCE BETWEEN 100% AND NUMBER ENTERED IN 10a IF 100%, SKIP QUESTIONS 14-17, 19b,19c, and 44-46 |
|  |
|  |
| 1.
 | During the past 7 calendar days, in which of the following areas did you compound antineoplastic agents? **Please ✓ all that apply.** | * Main inpatient pharmacy
* Satellite inpatient pharmacy
* Outpatient pharmacy
* Oncologist’s office/clinic/center
* Some other location (Please specify):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 |
| If only one response marked in Question 11 🡺 Go to Question 13. |
|  |
| 1.
 | Of the locations you checked above, please indicate the area where **you most often** compounded antineoplastic agents. |  | list areas marked in Question 11 (use radio buttons) |
|  |
| 1.
 | During the past 7 calendar days, how often did you compound antineoplastic agents in a… | Always | Sometimes | Never |
| a. …room or area dedicated to the preparation of these agents? | 🔿 | 🔿 | 🔿 |
| b. …biological safety cabinet? | 🔿 | 🔿 | 🔿 |
| c. …isolator? | 🔿 | 🔿 | 🔿 |
| d. …other (Please specify):\_\_\_\_\_\_\_\_\_\_\_\_ | 🔿 | 🔿 |  |
| if ‘100%’ tablets/capsules in question 10b, skip questions 14-17 |
|  | During the past 7 calendar days, did you prime IV tubing? | * Yes
* No 🡺 go to Question 17
 |
|  |
|  | During the past 7 calendar days, how often did you prime IV tubing inside a ventilated cabinet or isolator? | * Always
* Sometimes
* Never
 |
|  |
|  | During the past 7 calendar days, how often did you prime IV tubing with a liquid other than the antineoplastic agent? | * Always
* Sometimes
* Never
 |
|  |
| 1.
 | During the past 7 calendar days, which of the following devices did you use when transferring liquid antineoplastic agents from primary packaging (such as vials) to dosing equipment (e.g., infusion bags)? Please ✓ all that apply. | * Closed-system transfer device (e.g., *PhaSealR*)
* Needle-less system
* Glove box
* None of the above
 |
| IF ‘100%’ LIQUID in Question 10a, skip Question 18 |
|  | During the past 7 calendar days, how often did you crush tablets or open capsules of antineoplastic agents? | * Always
* Sometimes
* Never
 |
|  |

**Questions addressing work practices and use of personal protective clothing and equipment will help us understand what is currently used and under what circumstances. Depending on your job and exposures, these may not be required.**

|  |
| --- |
| if ‘100%’ tablets/capsules in question 10b, skip questions 19b and 19c. |
|  | During the past 7 calendar days when compounding antineoplastic agents, how often did you … | Always | Sometimes | Never |
| 1. …wipe drug vials before placement in the biological safety cabinet or isolator?
 | 🔿 | 🔿 | 🔿 |
| 1. …use Luer-Lock fittings for all needleless systems, syringes, needles, infusion tubing, and pumps?
 | 🔿 | 🔿 | 🔿 |
| c. …use a plastic-backed absorbent pad under the open drug vials and other preparation materials? | 🔿 | 🔿 | 🔿 |
| d. …change gloves at least every 30 minutes? | 🔿 | 🔿 | 🔿 |
| e. …change gloves immediately when damaged or contaminated? | 🔿 | 🔿 | 🔿 |
| f. …change disposable gowns after wearing for more than 3 hours? | 🔿 | 🔿 | 🔿 |
| g. …change disposable gowns immediately when damaged or contaminated? | 🔿 | 🔿 | 🔿 |
| h. …wash hands after removing gloves? | 🔿 | 🔿 | 🔿 |
| i. …wear shoe covers? | 🔿 | 🔿 | 🔿 |
| j. …wear a head cover? | 🔿 | 🔿 | 🔿 |
|  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | During the past 7 calendar days when **packaging** antineoplastic agents for delivery to the area(s) where they are administered, how often did you… | Always | Sometimes | Never |
| a. …package antineoplastic agent dosages in sealable plastic bags? | 🔿 | 🔿 | 🔿 |
| b. …attach a warning label (e.g., “hazardous”, “chemotherapy”, etc) to packages of antineoplastic agents?  | 🔿 | 🔿 | 🔿 |
| c. …store prepared antineoplastic agents in an area restricted to authorized personnel? | 🔿 | 🔿 | 🔿 |
| d. …obtain signature acknowledging receipt of antioneoplastic agent(s) from person administering the drug(s) or his/her designee? | 🔿 | 🔿 | 🔿 |
| e. …carry a spill kit during transportation of antineoplastic agent(s)? | 🔿 | 🔿 | 🔿 |
| IF ‘100%’ tablets/capsules in Question 10b, skip Questions 21-28. |
| 1.
 | During the past 7 calendar days, how many spills (even a few drops) occurred **inside** of a ventilated cabinet or isolator while you were compounding liquid antineoplastic drugs? | No spills | 1-2 spills | 3-5 spills | More than 5 spills |
| a. Spills of less than 5 ml | 🔿 | 🔿 | 🔿 | 🔿 |
| b. Spills of 5 ml or more  | 🔿 | 🔿 | 🔿 | 🔿 |
|  |
| If ‘No spills’ marked in BOTH 21a and 21b 🡺 Go to Question 25.Otherwise 🡺 Go to Question 22. |
|  |
| 1.
 | How often was/were the spill(s) cleaned up?  |  | * Always
* Sometimes
* Never 🡺 go to Question 25
* I don’t know 🡺 go to Question 25
 |
|  |
|  | How often did you yourself clean up the spill(s)? |  | * Always 🡺 go to Question 25
* Sometimes
* Never
 |
|  |
|  | Who cleaned up the spill(s)?**Please ✓ all that apply.** |  | * You
* Designated spill cleanup team
* Other (please specify): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* I don’t know
 |
|  |
| 1.
 | In the past 7 calendar days, how many spills (even a few drops) occurred **anywhere outside** of a ventilated cabinet or isolator while you were compounding or otherwise handling liquid antineoplastic drugs? | No spills | 1-2 spills | 3-5 spills | More than 5 spills |
| a. Spills of less than 5 ml  | 🔿 | 🔿 | 🔿 | 🔿 |
| b. Spills of 5 ml or more | 🔿 | 🔿 | 🔿 | 🔿 |
| If ‘No spills’ marked in BOTH 25a and 25b 🡺 Go to Question 29.Otherwise 🡺 Go to Question 26. |
|  |
| 1.
 | How often was/were the spill(s) cleaned up? |  | * Always
* Sometimes
* Never 🡺 GO to Question 29
* I don’t know 🡺 GO to Question 29
 |
|  |
|  | How often did you yourself clean up the spill(s)? |  | * Always 🡺 GO to Question 29
* Sometimes
* Never
 |
|  |
| 1.
 | Who cleaned up the spill(s)?**Please ✓ all that apply.** |  | * You
* Designated spill cleanup team
* Other (please specify):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* I don’t know
 |
|  |
| 1.
 | Are hazardous drug spill kits readily available? |  | * Yes
* No
* I don’t know
 |
|  |
|  | During the past 7 calendar days, did your skin come into direct contact with antineoplastic agents during compounding activities? |  | * Yes
* No
 |
|  |
|  | Has exposure monitoring (e.g., air sampling, wipe sampling) been conducted in the **past 12 months** to assess your or your co-workers’ exposure to antineoplastic agents? |  | * Yes
* No
* I don’t know
 |
|  |
|  | A **medical surveillance program** may include work history, physical exam, blood and/or urine tests, etc. Do you participate in a medical surveillance program that addresses potential health effects of exposure to antineoplastic agents?  |  | * Yes
* No, my (primary) employer offers such a program but I did not participate in it.
* My (primary) employer does not provide/I am not aware that my employer provides such a program.
 |
|  |
|  | In the past year, have you accidentally punctured your skin with a sharp while compounding antineoplastic agents? |  | * Yes
* No
 |
|  |
| **Questions addressing work practices and use of personal protective clothing and equipment will help us understand what is currently used and under what circumstances. Depending on your job and exposures, these may not be required.**  |
|  | During the past 7 calendar days, how often did you wear a **nonabsorbent disposable gown with closed front and tight cuffs** while compounding antineoplastic agents? |  | * Always 🡺 GO to Question 37
* Sometimes
* Never
 |

|  |  |  |  |
| --- | --- | --- | --- |
| 1.
 | What were the reason(s) you did not always wear a **nonabsorbent disposable gown** **with closed front and tight cuffs** while compounding antineoplastic agents? **Please ✓ all that apply.** |  | * An engineering control (e.g., ventilated safety cabinet, chemo hood or enclosure) was being used
* Skin exposure was minimal
* Not part of our protocol
* Not provided by employer
* No one else who does this work uses them
* Too uncomfortable or difficult to use
* Not readily available in work area
* Cross contamination to other areas is not a concern
* Concerned about raising the patient’s anxiety
* Other (Please specify):

  |
| If only one response marked in Question 35 🡺 Go to Question 37. |
|  |
| 1.
 | Of the reasons you checked above, please indicate the **most important reason** you did not always wear a **nonabsorbent disposable** **gown with closed front and tight cuffs** while compounding antineoplastic agents. |  | list reasons marked in Question 35 (use radio buttons) |
|  |
| 1.
 | In your current job, have you taken home any clothing that came into contact with antineoplastic agents? |  | * Yes
* No
* I don’t know
 |
|  |
|  | During the past 7 calendar days, how often did you wear **chemotherapy gloves** while compounding antineoplastic agents?**Note**: Chemotherapy glove: a medical glove that has been approved by FDA for use when handling antineoplastic agents. |  | * Always
* Sometimes
* Never🡺 GO to Question 40
* I don’t know if the gloves I wore were chemotherapy gloves🡺 GO to Question 42
 |
|  |
| 1. 3
 | When wearing chemotherapy gloves, how often did you wear two pairs (i.e., double glove)? |  | * Always
* Sometimes
* Never
* I don’t know
 |

If ‘always’ is marked in Question 38 🡺 Go to Question 42.

If ‘sometimes’ is marked in Question 38 🡺 Go to Question 40.

|  |  |  |  |
| --- | --- | --- | --- |
| 1.
 | What were the reason(s) you did not always wear **chemotherapy gloves** while compounding antineoplastic agents?**Please ✓ all that apply.** |  | * Skin exposure was minimal
* Not part of our protocol
* Not provided by employer
* No one else who does this work uses them
* Too uncomfortable or difficult to use
* Not readily available in work area
* Cross contamination to other areas is not a concern
* Concerned about raising the patient’s anxiety
* Other (Please specify):

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| If only one response marked in Question 40 🡺 Go to Question 42. |
|  |
| 1.
 |  Of the reasons you checked above, please indicate the **most important reason** you did not always wear **chemotherapy gloves** while compounding antineoplastic agents. |  | list reasons marked in Question 40 (use radio buttons) |

|  |
| --- |
|  |

|  |  |  |  |
| --- | --- | --- | --- |
| 1.
 | During the past 7 calendar days, did you perform any of the following activities while wearing gloves that had been used to handle antineoplastic agents? | Yes | No |
| a. Use phone/ cell phone/pager | 🔿 | 🔿 |
| b. Touch a computer keyboard, mouse, monitor or calculator | 🔿 | 🔿 |
| c. Handle files or charts | 🔿 | 🔿 |
| d. Touch door knobs, cabinets, drawers or product bins | 🔿 | 🔿 |
| e. Eat, drink, chew gum or smoke | 🔿 | 🔿 |
| f. Use pen or pencil (outside of lab hood) | 🔿 | 🔿 |
| g. Touch waste basket/garbage bags (outside of lab hood) | 🔿 | 🔿 |
| h. Use restroom | 🔿 | 🔿 |
| i. Apply cosmetics (e.g., lip balm) | 🔿 | 🔿 |
|  |
|  | During the past 7 calendar days, did you remove and later put back on the gloves you had worn while compounding antineoplastic agents? |  | * Yes
* No
 |
| if ‘100%’ tablets/capsules in question 10b, skip questions 44-46 |
|  | During the past 7 calendar days, how often did you wear **eye or** **face protection** (e.g., goggles, face shield) while compounding liquid antineoplastic agents?*Do not include personal eye glasses.* |  | * Always 🡺 GO to Question 47
* Sometimes
* Never
 |
|  |
| 1.
 | What were the reason(s) you did not always wear **eye or** **face protection** while compounding liquid antineoplastic agents? **Please ✓ all that apply.** |  | * An engineering control (e.g., ventilated safety cabinet, chemo hood or enclosure) was being used
* Exposure was minimal
* Not part of our protocol
* Not provided by employer
* No one who does this work uses them
* Too uncomfortable or difficult to use
* Not readily available in work area
* Concerned about raising the patient’s anxiety
* Other (Please specify): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

  |
| If only one response marked in Question 45 🡺 Go to Question 47. |
|  |
| 1. .
 | Of the reasons you checked above, please indicate the **most important reason** you did not always wear **eye or face protection** while compounding liquid antineoplastic agents. |  | list reasons marked in Question 45 (use radio buttons) |
|  |

|  |  |
| --- | --- |
| 1.
 | During the past 7 calendar days, did you wear any of the following **while compounding antineoplastic agents?** **Please ✓ all that apply.** |
| n95_duckbill2* N95 respirator (includes surgical N95 respirator)

Cup Style Surgical N95 Resp |  | * Half-facepiece air purifying respirator with particulate cartridge(s)
 |
| PAPR* Powered air-purifying respirator (PAPR)
 |  | * 200492754-001Standard surgical mask
 |
|  | * None of above
 |  | ❑ I don’t know  |
|  |
| DISPLAY FOLLOWING NOTE ON A SEPARATE SCREEN for all respondents (except those who marked ‘I don’t know’): THE FOLLOWING QUESTIONS ASK ABOUT RESPIRATORS. STANDARD SURGICAL MASKS ARE NOT RESPIRATORS.IF RESPONDENT MARKED ‘N95 RESPIRATOR’, ‘HALF-FACEPIECE AIR PURIFYING RESPIRATOR’ OR ‘POWERED AIR PURIFYING RESPIRATOR’ IN QUESTION 47 🡺 GO to Question 48.IF RESPONDENT MARKED ONLY ‘STANDARD SURGICAL MASK’ OR ‘NONE OF THE ABOVE’ IN QUESTION 47 🡺 GO to Question 49.IF RESPONDENT MARKED ‘I DON’T KNOW’ IN QUESTION 47 🡺 GO to INSTRUCTIONS IN QUESTION 51.  |

|  |
| --- |
|  |
|  | How often did you wear a N95 respirator, half-facepiece air purifying respirator or a powered air purifying respirator while compounding antineoplastic agents?  |  | * Always 🡺go to Question 51
* Sometimes
 |
|  |
| 1. .
 | What were the reason(s) you did not **always** wear a N95 respirator, a half-facepiece air purifying respirator with particulate cartridge, or a powered air purifying respirator while compounding antineoplastic agents?**Please ✓ all that apply.** |  | * An engineering control (e.g., ventilated safety cabinet, chemo hood or enclosure) was being used
* Exposure was minimal
* Not part of our protocol
* Not provided by employer
* No one else who does this work uses them
* Too uncomfortable or difficult to use
* Not readily available in work area
* Concerned about raising the patient’s anxiety
* Other (Please specify): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 |
|  |
| If RESPONDENT marked more than one reASON in Question 49 🡺 Go to Question 50. Otherwise 🡺 Go to INSTRUCTIONS BEFORE QUESTION 51 |
| 1. .
 | Of the reasons you checked above, please indicate the **most important reason** you did not **always** wear a **respirator** while compounding antineoplastic agents. |  | list reasons marked in Question 49 (use radio buttons) |
|  |
| If RESPONDENT marked ‘N95 respirator’ or ’Half-facepiece air purifying respirator’ in Question 47 🡺 Go to Question 51. Otherwise 🡺 EXIT MODULE AND Go to Core Module IF THIS IS THE FIRST HAZARD MODULE COMPLETEDIF THIS IS THE SECOND HAZARD MODULE COMPLETED, END SURVEY. end with ‘Thank you’ statement. |
|  |
| 1.
 | Have you been fit-tested for the respirator(s) you use for compounding antineoplastic agents?  |  | * Yes
* No

🡺 EXIT MODULE AND Go to Core Module IF THIS IS THE FIRST HAZARD MODULE COMPLETEDIF THIS IS THE SECOND HAZARD MODULE COMPLETED, END SURVEY. end with ‘Thank you’ statement. |

**Thank you for participating in the NIOSH Health and Safety Practices Survey of Healthcare Workers. Your answers have been submitted.**