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PROGRAMMING INSTRUCTIONS APPEAR IN BLUE.

Form Approved
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During your career, how long have you O Less than one year 1. been administering antineoplastic agents **O** 1-5 years O 6-10 years to patients? **O** 11-20 years O More than 20 years 2. What training, if any, have you received on ☐ Association of Pediatric/Hematology the safe handling of antineoplastic agents? Oncology Nurses (APHON) Chemotherapy and Biotherapy course Please \checkmark all that apply. Oncology Nurses Society (ONS) Safe Handling of Hazardous Drugs course ONS Chemotherapy and Biotherapy course ☐ Other (Please specify) ☐ I have not received training →GO TO QUESTION 4 3. When was the last time you received O Within the past 12 months training on the safe handling of O More than 12 months ago antineoplastic agents? How familiar are you with the following guidance documents on the safe handling of antineoplastic agents? Somewhat Very Not at All a. American Society of Health-System Pharmacists (ASHP) guidelines for 0 0 0 handling hazardous drugs b. NIOSH Alert on Preventing Exposures to Antineoplastic Agents and Other 0 0 0 Hazardous Drugs c. Oncology Nurses Society (ONS) Safe 0 0 0 Handling of Hazardous Drugs d. Occupational Safety and Health 0 0 0 Administration (OSHA) guidelines for the management of antineoplastic drugs

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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.	
- Description and the company of the state o	

5.	Does your employer have procedures that	O Yes
•	address safe administration of	O No
	antineoplastic agents?	O I don't know

6. During the past 7 calendar days, which of the following antineoplastic agents did you administer to patients? **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	Floxuridine Fludarabine Fluoxymesterone Flutamide Fluorouracil Fluvestrant Gemcitabine Gemtuzumab ozogamicin Goserelin	0000000 00	Paclitaxel Palifermin Pegaspargase Pemetrexed Pentostatin Plicamycin Procarbazine Raloxifene Rituximab
Azacitidine BCG live Bevacizumab Bexarotene Bicalutamide Bleomycin Bortezomib Busulfan	Hydroxyurea Ibritumomab Tiuxetan Idarubicin Ifosfamide Imatinib mesylate Interferon Alfa Irinotecan		Sargramostim Sorafenib Streptozocin Sunitinib Tamoxifen Temozolomide Teniposide Thalidomide
Capecitabine Carboplatin Carmustine Cetuximab Chlorambucil Cisplatin Cladribine	Lapatinib Lenalidomide Letrozole Leuprolide Levamisole Lomustine		Thalidomide Thioguanine Thiotepa Topotecan Toremifene Trastuzumab Trimetrexate Tretinoin
Cyclophosphamide Cytarabine Dacarbazine Dactinomycin Daunorubicin Denileukin Docetaxel Doxorubicin	Megestrol Melphalan Mercaptopurine Merchlorethamine Methotrexate Mitomycin-C Mitotane Mitoxantrone	0000 0	Valrubicin Vinblastine Vincristine Vinorelbine Investigational compounds (not yet named)
Epirubicin Estramustine Etoposide Exemestane	Motexafin gadolinium Nilutamide Oprelvekin Oxaliplatin		Other (Please specify up to 2 more antineoplastic agents):

7.	During the past 7 calendar days, on how many days did you administer antineoplastic agents to patients?	 1 day 2 days 3 days 4 days 5 days 6 days 7 days
8.	During the past 7 calendar days, what was the total number of treatments of antineoplastic agents you administered to patients? Note: One treatment equals one or more chemo drugs administered to one patient during one therapy session.	 1-2 treatments 3-4 treatments 5-9 treatments 10-20 treatments 21-40 treatments More than 40 treatments
9.	During the past 7 calendar days, the total number of treatments of antineoplastic agents you administered was	 more treatments than usual fewer treatments than usual about the same number of treatments as usual
10	Of the total number of antineoplastic drug treatments you administered during the	
	past 7 calendar days awhat percent was liquid?	%
		IF 100%, SKIP QUESTIONS 11 AND 12
	bwhat percent were tablets/capsules?	FILL IN DIFFERENCE BETWEEN 100% AND NUMBER ENTERED IN 10A
		IF 100%, SKIP QUESTIONS 15a-d, 17- 26 AND 41-43.

11	Of the total number of antineoplastic drug treatments you administered as tablets or capsules during the past 7 calendar days awhat percent of all tablets were crushed?	 ○ 0% ○ 1-19% ○ 20-39% ○ 40-59% ○ 60-79% ○ 80-99% ○ 100%
	Of the total number of antineoplastic drug treatments you administered as tablets or capsules during the past 7 calendar days bwhat percent of all capsules were opened?	 O 0% O 1-19% O 20-39% O 40-59% O 60-79% O 80-99% O 100% IF '0%' in 11a AND 11b, →GO TO QUESTION 13
12	Where were the tablets crushed or capsules opened? Please ✓ all that apply.	Bedside Clinical areas Pharmacy Other (please specify):
13	During the past 7 calendar days, in which of the following areas did you administer antineoplastic agents to patients? Please ✓ all that apply.	□ Patient's hospital room □ Operating room □ Hospital treatment room (e.g., for infusion therapy) □ Outpatient center/clinic □ Oncologist's office □ Patient's home □ Other location (Please specify):

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IF ON	LY ONE RESPONSE MARKED IN QUES	TIC	ON 13→ GO TO QUESTION 15.
14.	Of the locations you checked above,		LIST AREAS MARKED IN QUESTION 13
	please indicate the area where you most		(USE RADIO BUTTONS)
	often administered antineoplastic agents.		

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.

SKIP QUESTIONS 15 A, B, C AND D, IF '100%' TABLETS/CAPSULES IN QUESTION 10B.

15. During the past 7 calendar days while administering antineoplastic agents to patients, how often did you...

patients, how often did you	Always	Sometimes	Never
ause a closed-system transfer device (e.g., PhaSeal)?	0	O	0
 buse Luer-Lock fittings for all needleless systems, syringes, needles, infusion tubing, and pumps? 	0	0	0
cuse a needle-less system?	0	0	0
 duse a plastic-backed absorbent pad under injection site? 	0	0	0
ereplace gloves immediately when damaged or contaminated?	0	0	0
fwash hands after removing gloves?	0	0	0
gwear shoe covers?	0	0	0
hwear a head cover?	0	0	0

- 16. During the past 7 calendar days, how often did you store prepared antineoplastic agents in an area restricted to authorized personnel before administering them to patients?
- O Always
- O Sometimes
- O Never
- O Not applicable, I did not store antineoplastic agents before administering them to patients

SKIP QUESTIONS 17-26 IF '100%' TABLETS/CAPSULES IN QUESTION 10B.

- 17. During the past 7 calendar days, which of the following best describes how liquid antineoplastic agents were most commonly received from the pharmacy (or drug preparation area)?
- O IV tubing primed with antineoplastic agent
- O IV tubing primed with diluents (i.e., a liquid other than antineoplastic agent)
- O IV tubing is not primed
- Not applicable, I did not receive any liquid antineoplastic agents from a pharmacy or drug preparation area

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di ad	uring the past 7 calendar days, how often d you prime the IV tubing before dministering antineoplastic agents to atients?	O AlwaysO SometimesO Never → GO TO QUESTION 20				
_ y	uring the past 7 calendar days, how did ou prime the IV tubing?	☐ With di	ntineoplastic luents (i.e., a plastic agen	a liquid other t	than	
pı	n the past year, have you accidentally unctured your skin with a sharp while dministering antineoplastic agents?	O Yes O No				
OI 00	uring the past 7 calendar days, did a spill r leak of any amount (even a few drops) ccur while you were administering liquid ntineoplastic agents?	O Yes O No →	GO TO Q	UESTION 2	7	
th	ruring the past 7 calendar days, did any of ne following cause a spill or leak of liquid ntineoplastic agents during administration?	Y	es	No	0	
a.	. Attaching, injecting, or detaching from IV line		3	C)	
b.	. Drawing up or expelling air from syringe	(3)	
C.	Bad connection	(3)	
d.	. Excessive pressure in vial	(0)	
e.	. Equipment malfunction	(0)	
f.	Other (Please specify):	(3)	
s	uring the past 7 calendar days, how many pills or leaks occurred while you were dministering liquid antineoplastic agents?	No spills	1-2 spills	3-5 spills	More than 5 spills	
a.	. Spills or leaks less than 5 ml	0	0	0	0	
b.	. Spills or leaks of 5 ml or more	0	0	0	0	

IF 'NO SPILLS' MARKED IN BOTH QUESTIONS 23A AND 23B→ GO TO QUESTION 27. ALL OTHER RESPONSES → GO TO QUESTION 24.

24.	How often was/were the spill(s) cleaned up?		 O Always O Sometimes O Never → GO TO QUESTION 27 O I don't know → GO TO QUESTION 27
25.	How often did you yourself clean up the spill(s)?	0	Always → GO TO QUESTION 27 Sometimes Never
26.	Who cleaned up the spill(s)? Please ✓ all that apply.		You Designated spill cleanup team Other (Please specify):
			I don't know
27.	Are hazardous drug spill kits readily available?		YesNoI don't know
28.	During the past 7 calendar days, did your skin come into direct contact with antineoplastic agents during handling or administration?		O Yes O No
29.	Has exposure monitoring (e.g., air sampling, wipe sampling) been conducted in the past 12 months to assess your or your coworkers' exposure to antineoplastic agents?		O Yes O No O I don't know
30.	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 such a program I am not aware of whether my employer provides such a program.

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.

<u>-</u>	did you v	ne past 7 calendar days, how often wear a nonabsorbent gown with ront and tight cuffs while ering antineoplastic agents to	0	Always → GO TO QUESTION 34 Sometimes Never
<u> </u>	wear a n front an antineop	ere the reason(s) you did not always nonabsorbent gown with closed d tight cuffs while administering lastic agents? All that apply.		An engineering control (e.g., closed-system drug transfer device) 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 ONL	LY ONE	RESPONSE MARKED IN QUESTION	ON 3	32→ GO TO QUESTION 34.
33.	indicate not alwa closed	easons you checked above, please the most important reason you did ays wear a nonabsorbent gown with front and tight cuffs while stering antineoplastic agents.		ST REASONS AREAS MARKED IN JESTION 32 (USE RADIO BUTTONS)
34.	any clo	current job, have you taken home thing that came into contact with plastic agents?	0	Yes No I don't know
35.	During the past 7 calendar days, how often did you wear chemotherapy gloves while administering antineoplastic agents to patients?			 O Always O Sometimes O Never → GO TO QUESTION 37 O I don't know if the gloves I wore were chemotherapy gloves → GO TO
	Note:	A chemotherapy glove is a medical glove that has been approved by FDA for use when handling antineoplastic agents.		QUESTION 39

f. Use pen or pencil

c. Handle files or charts

d. Touch door knobs, cabinets or drawers

e. Eat, drink, chew gum or smoke

0

0

0

0

0

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	g. Touch waste basket/garbage bags		0	0
	h. Use restroom		0	0
	i. Apply cosmetics (e.g., lip balm)		0	0
	j. Touch IV pump or bed controls		0	0
	k. Use a non-disposable stethoscope		0	0
40	During the past 7 calendar days, did you remove and later put back on the gloves you had worn while administering antineoplastic agents?	0	Yes No	
41	During the past 7 calendar days, how often did you wear eye or face protection (e.g., goggles, face shield) while administering liquid antineoplastic agents to patients? Do not include personal eye glasses	0	Always → GO TO QUESTI Sometimes Never	ON 44
42	What were the reason(s) you did not always wear eye or face protection while administering liquid antineoplastic agents? Please ✓ all that apply.		An engineering control (e.g., or system drug transfer device) wased Exposure was minimal Not part of our protocol Not provided by employer No one else who does this work them Too uncomfortable or difficult Not readily available in work at Concerned about raising the panxiety Other (Please specify):	vas being ork uses to use urea

IF ONLY ONE RESPONSE MARKED IN QUESTION 42 → GO TO QUESTION 44.

43. Of the reasons you checked above, please indicate the **most important reason** you did not always wear **eye or face protection** while administering liquid antineoplastic agents.

LIST REASONS MARKED IN QUESTION 42. (USE RADIO BUTTONS)

44.
During the past 7 calendar days, did you wear any of the following while administering antineoplastic agents?

Please \checkmark all that apply.

N95 respirator (includes surgical N95 respirator)



☐ Half-facepiece air purifying respirator with particulate cartridge(s)



☐ Powered air purifying respirator (PAPR)



☐ Standard surgical mask



■ None of above

I don't know

DISPLAY FOLLOWING NOTE ON A SEPARATE SCREEN (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 44→ GO TO QUESTION 45

IF RESPONDENT MARKED 'STANDARD SURGICAL MASK' OR 'NONE OF THE ABOVE' IN QUESTION 44 → GO TO QUESTION 46

IF RESPONDENT MARKED 'I DON'T KNOW' IN QUESTION 44→ GO TO INSTRUCTIONS IN QUESTION 48

- 45. How often did you wear a N95 respirator, half-facepiece air purifying respirator with particulate cartridge or a powered air purifying respirator while administering antineoplastic agents?
- O Always → GO TO QUESTION 48
- O Sometimes

46. 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 administering antineoplastic agents?

Please \checkmark all that apply.

Ч	An engineering control (e.g., closed-
	system drug transfer device) 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 47 → GO TO QUESTION 48.

OTHERWISE J GO TO INSTRUCTIONS BEFORE QUESTION 48.

47. Of the reasons you checked above, please indicate the **most important reason** you did not **always** wear a **respirator** while administering antineoplastic agents.

LIST REASONS MARKED IN QUESTION 46 (USE RADIO BUTTONS)

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IF RESPONDENT MARKED "N95 RESPIRATOR" OR "HALF-FACEPIECE AIR PURIFYING RESPIRATOR WITH PARTICULATE CARTRIDGE" IN QUESTION 44 → GO TO QUESTION 48.

OTHERWISE # EXIT MODULE AND GO TO CORE MODULE IF THIS IS THE FIRST HAZARD MODULE COMPLETED

IF THIS IS THE SECOND HAZARD MODULE COMPLETED, END SURVEY. END WITH THANK YOU' STATEMENT.

48. Have you been fit-tested for the respirator(s) you use for administering antineoplastic agents?

O Yes

O No

★ EXIT MODULE AND GO TO CORE
 MODULE IF THIS IS THE FIRST
 HAZARD MODULE COMPLETED
 IF 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.