MODULE B: Antineoplastic Agents (Compound)

7/23/10

Form Approved
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PROGRAMMING INSTRUCTIONS APPEAR IN BLUE.

1.	During your career, how long have you compounded antineoplastic agents?		0 0 0	1-5 yea 6-10 ye 11-20 y	ears	
2.	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 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 ChemoTEQ™ Safe Handling of Hazardous Drugs Training Other (Please specify): I have not received training ♣ GO TO QUESTION 4			
3.	When was the last time you received training on the safe handling of antineoplastic agents?	0		•	2 months months ago	
4.	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		0		0	O
	b. NIOSH Alert on Preventing Exposures to Antineoplastic Agents and Other Hazardous Drugs		0		0	O
	c. ONS Safe Handling of Hazardous Drugs		0		0	0

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	d. Occupational Safety and Health Administration (OSHA) guidelines for the management of antineoplastic drugs		O	0	0	
emple	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.					
5.	Does your employer have procedures that address safe compounding of antineoplastic agents?	0 0	Yes No I don't kno	DW		

6.	ring the past 7 calendar days npound? Please ✓ all that		nich of the following antineopla ly.	astic	agents did you
			HTING THE PAST 7 CALE E PAST 7 CALENDAR DA		AR DAYS. APPLIES TO
	Aldesleukin Alemtuzumab Alitretinoin Altretamine Aminoglutethimide Amifostine Amsacrine Anastrozole Arsenic trioxide		Floxuridine Fludarabine Fluoxymesterone Flutamide Fluorouracil Fluvestrant Gemcitabine Gemtuzumab ozogamicin Goserelin	0000000000	Paclitaxel Palifermin Pegaspargase Pemetrexed Pentostatin Plicamycin Procarbazine Raloxifene Rituximab
	Asparginase Azacitidine	_	Hydroxyurea		Sargramostim
	BCG live Bevacizumab Bexarotene		Ibritumomab Tiuxetan Idarubicin Ifosfamide		Sorafenib Streptozocin Sunitinib
	Bicalutamide Bleomycin Bortezomib Busulfan		Imatinib mesylate Interferon Alfa Irinotecan		Tamoxifen Temozolomide Teniposide Thelidemide
	Capecitabine Carboplatin Carmustine Cetuximab Chlorambucil Cisplatin	000000	Lapatinib Lenalidomide Letrozole Leuprolide Levamisole Lomustine		Thalidomide Thioguanine Thiotepa Topotecan Toremifene Trastuzumab Trimetrexate
	Cladribine Cyclophosphamide Cytarabine		Megestrol Melphalan Mercaptopurine		Tretinoin Valrubicin Vinblastine
	Dacarbazine Dactinomycin Daunorubicin Denileukin		Merchlorethamine Methotrexate Mitomycin-C Mitotane		Vincristine Vinorelbine
	Docetaxel Doxorubicin		Mitoxantrone Motexafin gadolinium		Investigational compounds (not yet named)
	Epirubicin Estramustine Etoposide Exemestane		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 compound antineoplastic agents?	 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 doses of antineoplastic agents that you compounded?	 1-5 doses 6-10 doses 11-20 doses 21-40 doses More than 40 doses
9.	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
10.	Of the total number of antineoplastic drug doses you compounded during the past 7 calendar days	
	awhat percent was liquid?	% IF 100%, SKIP QUESTION 18
	bwhat 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

11	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 ON	ILY ONE RESPONSE MARKED IN QUESTIC)N 1	.1 🗲 GO TO	QUESTION 1	3.
12	Of the locations you checked above, please indicate the area where you most often compounded antineoplastic agents.		T AREAS M SE RADIO E	IARKED IN QU BUTTONS)	ESTION 11
13	During the past 7 calendar days, how often did you compound antineoplastic agents in a				
			Always	Sometimes	Never
	 aroom or area dedicated to the preparation of these agents? 		0	0	0
	bbiological safety cabinet?		0	0	0
	cisolator?		0	0	0
	dother (Please specify):		0	0	
	00%' TABLETS/CAPSULES IN QUESTION 1 During the past 7 calendar days, did you prime IV tubing?	0	Yes	STIONS 14-17 TO QUESTION	17
15	During the past 7 calendar days, how often did you prime IV tubing inside a ventilated cabinet or isolator?	0	Always Sometimes Never		
16	During the past 7 calendar days, how often did you prime IV tubing with a liquid other than the antineoplastic agent?	0	Always Sometimes Never		

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17	follo trar prir equ	ring the past 7 calendar days, which of the owing devices did you use when asferring liquid antineoplastic agents from mary packaging (such as vials) to dosing sipment (e.g., infusion bags)? ase all that apply.		PhaSeal ^f Needle-le Glove bo	ess system	ice (e.g.,
IF '10	00%	' LIQUID IN QUESTION 10A, SKIP QUE	ESTI	ON 18		
18	you	ring the past 7 calendar days, how often did crush tablets or open capsules of ineoplastic agents?	0	Always Sometime Never	es	
equip circur	mer nsta	s addressing work practices and use on the will help us understand what is curre ances. Depending on your job and exp	ently osui	used and res, these	d under what e may not be req	uired.
19	cor	ring the past 7 calendar days when npounding antineoplastic agents, how often you		Always	Sometimes	Never
	a.	wipe drug vials before placement in the biological safety cabinet or isolator?		0	0	0
	b.	use Luer-Lock fittings for all needleless systems, syringes, needles, infusion tubing, and pumps?		0	O	0
	C.	use a plastic-backed absorbent pad under the open drug vials and other preparation materials?		0	0	0
	d.	change gloves at least every 30 minutes?		0	0	0
	e.	change gloves immediately when damaged or contaminated?		0	0	0

...change disposable gowns after wearing for more than 3 hours?

...change disposable gowns immediately when damaged or contaminated?

f.

IF 'NO SPILLS' MARKED IN BOTH 21A AND 21B # GO TO OUESTION 25.

OTHERWISE # GO TO QUESTION 22.

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22.	How often was/were the spill(s) cleaned up?		Always		
			Sometimes		ON 25
			Never → GO I don't know →		
			25	GO TO QU	DESTION
23.	How often did you yourself clean up the		Always 🖈 GO	TO QUEST	10N 25
	spill(s)?	_	Sometimes		
			Never		
24.	Who cleaned up the spill(s)?		You		
	Please ✓ all that apply.		Designated spi	II cleanup tea	am
			Other (please s	specify):	
			I don't know		
]	I don't know		
		ļ l			
25.	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			More than 5
	nanding liquid antineoplastic drugs:	spills	1-2 spills	3-5 spills	spills
					•
	a. Spills of less than 5 ml	0	0	0	0
	b. Spills of 5 ml or more	0	0	0	0
IF 'NO	SPILLS' MARKED IN BOTH 25A AND 25	B 🖈 GC	TO QUESTION	ON 29.	
OTHE	RWISE & GO TO QUESTION 26.				
	•				
26.	How often was/were the spill(s) cleaned up?	0	Always		
		0	Sometimes		
		0			
		0	I don't know	GO TO QU	JESTION
			29		
27.	How often did you yourself clean up the	0	Always ૐ GO	TO OUEST	ION 29
۷1.	spill(s)?	$ \overset{\circ}{o} $	Sometimes	, o Quest	1014 25
		Ö	Never		

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28.	Who cleaned up the spill(s)? Please ✓ all that apply.			You Designated spill cleanup team Other (please specify):
				I don't know
29.	Are hazardous drug spill kits readily available?			O Yes O No O I don't know
30.	During the past 7 calendar days, did your skin come into direct contact with antineoplastic agents during compounding activities?			O Yes O No
31.	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
32.	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.
33.	In the past year, have you accidentally punctured your skin with a sharp while compounding antineoplastic agents?			O Yes O No
equipr	ions addressing work practices and use nent will help us understand what is cur nstances. Depending on your job and ex	rent	ly us	sed and under what
34.	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?) S	lways → GO TO QUESTION 37 ometimes ever

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35	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 ON	ILY ONE RESPONSE MARKED IN QUESTION	ON 3	35 → GO TO QUESTION 37.
36	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.		T REASONS MARKED IN QUESTION (USE RADIO BUTTONS)
37	In your current job, have you taken home any clothing that came into contact with antineoplastic agents?	0	Yes No I don't know
		•	
38	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.	0	Always Sometimes Never GO TO QUESTION 40 I don't know if the gloves I wore were chemotherapy gloves GO TO QUESTION 42
39	When wearing chemotherapy gloves, how		Always
3	often did you wear two pairs (i.e., double glove)?	0	Sometimes Never I don't know

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F 'SC	F 'SOMETIMES' IS MARKED IN QUESTION 38 → GO TO QUESTION 40.					
40	cor	nat were the reason(s) you did not always ar chemotherapy gloves while mpounding antineoplastic agents? ease ✓ all that apply.		Not part of a Not provide No one else them Too uncome Not readily Cross conta a concern	d by employer who does this we fortable or difficult available in work mination to other about raising the	to use area areas is not
F ON	LY	ONE RESPONSE MARKED IN QUESTIC	ON 4	.0 🗲 GO TO	O QUESTION 4	2.
 41. Of the reasons you checked above, please indicate the most important reason you did not always wear chemotherapy gloves while compounding antineoplastic agents. 42. 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		-	0	0
	b.	Touch a computer keyboard, mouse, monito	0	0		
	C.	Handle files or charts	0	0		
	d.	d. Touch door knobs, cabinets, drawers or product bins			0	0
	e.	. Eat, drink, chew gum or smoke			0	0
	f.	Use pen or pencil (outside of lab hood)			0	0
	g.	. Touch waste basket/garbage bags (outside of lab hood)			0	0
	h.	Use restroom	0	0		
	i.	Apply cosmetics (e.g., lip balm)			0	0
43. During the past 7 calendar days, did you remove and later put back on the gloves you had worn while compounding antineoplastic agents? O Yes O No						

IF '100%' TABLETS/CAPSULES IN QUESTION 10B, SKIP QUESTIONS 44-46					
44	During the past 7 calendar days, how often di wear eye or face protection (e.g., goggles, f shield) while compounding liquid antineoplast agents? Do not include personal eye glasses.	ace 47			
45	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.					
46. 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)			

47. During the past 7 calendar days, did you wear any of the following **while compounding 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 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.

48 How often did you wear a N95 respirator, halffacepiece air purifying respirator or a powered air purifying respirator while compounding antineoplastic agents?

- O Always JGO TO QUESTION 51
- O Sometimes

 49.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):
F RESPONDENT MARKED MORE THAN ON QUESTION 50. OTHERWISE GO TO INSTRUCTIONS BEFORE 50. Of the reasons you checked above, please indicate the most important reason you did not always wear a respirator while compounding antineoplastic agents.	
F RESPONDENT MARKED 'N95 RESPIRATORESPIRATOR' IN QUESTION 47 PGO TO QUESTION 47 PGO TO QUESTION AND GO TO CHAZARD MODULE COMPLETED F THIS IS THE SECOND HAZARD MODULE THANK YOU' STATEMENT.	OUESTION 51. CORE MODULE IF THIS IS THE FIRST
51 Have you been fit-tested for the respirator(s) you use for compounding antineoplastic agents?	

END WITH 'THANK YOU' STATEMENT.

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