7/23/10

Form Approved
OMB No. 10AP-XXXX
Expiration Date: XX/XX/2011

PROGRAMMING INSTRUCTIONS APPEAR IN BLUE.

IF RESPONDENT MARKED 'YES' TO *ONE* OF THE INTRO QUESTIONS, GO TO APPROPRIATE SUBMODULE.

IF RESPONDENT MARKED 'YES' TO TWO INTRO QUESTIONS, RANDOMIZE ORDER THAT THE SUBMODULES ARE PRESENTED.

IF RESPONDENT MARKED 'YES' TO ALL THREE INTRO QUESTIONS, PRESENT SUBMODULE B EITHER FIRST OR LAST [DUE TO DIFFERENT TIME PERIOD (30 DAYS) FOR PENTAMIDINE] AND RANDOMIZE ORDER OF A AND C.

INTRO QUESTIONS

A. Did you administer the aerosolized Yes → SUBMODULE 1 antibiotics tobramycin (TOBIR), amikacin No (Amikin^R) and/or colistin in the past 7 ◀ February 2007 calendar days? **DISPLAY A** 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 CALENDAR 18 19 20 21 22 23 24 HIGHLIGHTING 25 26 27 28 THE PAST 7 CALENDAR DAYS. APPLIES TO ALL **QUESTIONS WITH 'IN THE PAST 7** OR 30 CALENDAR DAYS'

- B. Did you administer aerosolized pentamidine Yes → SUBMODULE 2 (Nebupent^R) in the past 30 calendar days? No DISPLAY CALENDAR HIGHLIGHTING THE PAST 30 CALENDAR DAYS
- C. Did you administer aerosolized **ribavirin**(*Virazole*^R) in the past 7 calendar days?
 DISPLAY CALENDAR HIGHLIGHTING
 THE PAST 7 CALENDAR DAYS.

 O Yes → SUBMODULE 3
 No

SUBMODULE 1: AEROSOLIZED ANTIBIOTICS TOBRAMYCIN, AMIKACIN AND COLISTIN

Public reporting burden of this collection of information is estimated to average 13 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Reports Clearance Officer, 1600 Clifton Road NE, MS D-74, Atlanta, Georgia 30329-4018; ATTN: PRA (10AP-xxxx).

1.	During your career, how long have you been administering the aerosolized antibiotics tobramycin (<i>TOBI</i> ^R), amikacin (<i>Amikin</i> ^R) or colistin?	00000	Less than one year 1-5 years 6-10 years 11-20 years More than 20 years
2.	When was the last time you received training on procedures for the safe handling of these three aerosolized antibiotics?	0	Within the past 12 months More than 12 months ago I never received training
emplo	work for more than one employer, the folloyer, i.e., the one for which you typically would yed, consider yourself the employer.		
3.	Does your employer have standard procedures for administering the aerosolized antibiotics tobramycin, amikacin or colistin?	000	Yes No I don't know
4.	During the past 7 calendar days, on how many days did you administer the aerosolized antibiotics tobramycin, amikacin or colistin?	0000000	1 day 2 days 3 days 4 days 5 days 6 days 7 days
5.	During the past 7 calendar days, what was the total number of times you administered any of these three aerosolized antibiotics? Note: If you administered any of these three aerosolized antibiotics more than one time to the same patient, count each administration separately.	00000	1 time 2-3 times 4-5 times 6-10 times More than 10 times.
6.	During the past 7 calendar days, did you administer any of these three aerosolized antibiotics	000	more times than usualfewer times than usualabout the same number of times as usual

7.	During the past 7 calendar days, how much time did you typically spend with a patient during a single administration of the aerosolized antibiotics tobramycin, amikacin or colistin? Note: Include medication preparation time, delivery time spent with patient, and cleanup time where you continue to be exposed. Exclude time spent with the patient in preadministration assessment or any other times in the process where you are not exposed.	Continuities Conti
8.	During the past 7 calendar days, in which of the following areas did you administer the aerosolized antibiotics tobramycin, amikacin or colistin? Please ✓ all that apply.	☐ Patient's hospital room ☐ Clinic/department treatment room or area ☐ Patient's home ☐ Some other location (Please specify):
IF ONI	LY ONE AREA IN QUESTION 8 🕏 GO TO QU	JESTION 10.
9.	Of the locations you checked above, please indicate the area where you most often administered these three aerosolized antibiotics during the past 7 calendar days.	LIST AREAS MARKED IN QUESTION 8 (USE RADIO BUTTONS)
RESPO	SPONDENT MARKED '1 TIME' IN QUESTION ONDENT MARKED ANY OF THE OTHER RES TION 11.	
10.	When you administered the aerosolized antibiotic tobramycin, amikacin or colistin to patients during 7 calendar days, did you	
	a)use a continuous aerosol delivery system at to a face mask, face tent or tracheostomy collar?	tached O

air cannot escape from the NPR to other areas)?	J	J	J
Has exposure monitoring (e.g., air sampling, surface wipe sampling) been conducted in the past 12 months to assess your or your coworkers' exposure to			
	Yes	No	I don't know
tobramycin?	0	0	0
colistin?	0	0	0

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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.

13.	During the past 7 calendar days, how often did you wear a water resistant gown or outer garment while administering aerosolized tobramycin, amikacin or colistin?	000	Always GO TO QUESTION 16 Sometimes Never
14.	What were the reason(s) you did not always wear a water resistant gown or outer garment while administering aerosolized tobramycin, amikacin or colistin? Please ✓ all that apply.		An engineering control (e.g., aerosol delivery system equipped with filter(s)/scavenging system) 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 REASON IN QUESTION 14 # GO TO QUESTION 16.

15. Of the reasons you checked above, please indicate the most important reason you did not always wear a water resistant gown or outer garment while administering any of these three aerosolized antibiotics.

LIST REASONS MARKED IN QUESTION 14 (USE RADIO BUTTONS)

MODU 7/23/10 16.	In your current job, have you taken home any clothing that came into contact with tobramycin, amikacin or colistin?	000	Yes No I don't know
17.	During the past 7 calendar days, how often did you wear protective gloves while administering aerosolized tobramycin, amikacin or colistin?	∞	Always GO TO QUESTION 20 Sometimes Never
18.	What were the reason(s) you did not always wear protective gloves while administering these three aerosolized antibiotics? 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):
GO TO IF ONL	LY ONE REASON MARKED IN QUESTION QUESTION 22 LY ONE REASON MARKED IN QUESTION TO QUESTION 20		
19.	Of the reasons you checked above, please indicate the most important reason you did not always wear protective gloves while administering these three aerosolized antibiotics.	QU	T REASONS MARKED IN ESTIONS 18 (USE RADIO TTONS)

IF "NEVER" IN QUESTION 17 → GO TO QUESTION 22

20. During the past 7 calendar days, did you perform any of the following activities while wearing **protective gloves** that had been used during the handling of tobramycin, amikacin or colistin?

Yes No

	a. Use phone/ cell phone/pager			0	0
	b. Touch a computer keyboard, mouse, monitor or calculator			0	0
	c. Handle files or charts			0	0
	d. Touch door knobs, cabinets or drawers			0	0
	e. Eat, drink, chew gum or smoke			0	0
	f. Use pen or pencil			0	0
	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
21.	During the past 7 calendar days, did you ren back on the protective gloves you had wor aerosolized tobramycin, amikacin or colistin	n wh		O Yes O No	
22.	During the past 7 calendar days, how often of you wear eye protection (e.g., goggles, face shield) while administering aerosolized tobramycin, amikacin or colistin? <i>Do not include personal eye glasses</i>		Always GO T Sometimes Never	O QUESTIC	N 25
		ļ			
23.	What were the reason(s) you did not always wear eye protection while administering tobramycin, amikacin or colistin? Please ✓ all that apply.		Not part of our Not provided by No one else who them Too uncomfortation Not readily available Concerned abounciety	nclosure) was minimal protocol / employer to does this we able or difficult ilable in work ut raising the	being used ork uses t to use area

IF ONLY ONE REASON MARKED IN QUESTION 23 → GO TO QUESTION 25.

24. Of the reasons you checked above, please indicate the **most important reason** you did not **always** wear **eye protection** while administering these three aerosolized antibiotics.

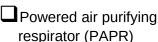
LIST REASONS MARKED IN OUESTION 23 (USE RADIO BUTTONS)

25. During the past 7 calendar days, did you wear any of the following **while administering aerosolized tobramycin, amikacin or colistin?**

Please \checkmark all that apply.

N95 respirator (includes surgical N95 respirator)







air purifying respirator with particulate cartridge(s)

Half-facepiece



☐ Standard surgical mask



 \square None of the 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 25 → GO TO QUESTION 26.

IF RESPONDENT MARKED ONLY 'STANDARD SURGICAL MASK' OR 'NONE OF THE

ABOVE' IN QUESTION 25 → GO TO QUESTION 27.

IF RESPONDENT MARKED 'I DON'T KNOW' IN QUESTION 25 →GO TO QUESTION 30.

26.	How often did you wear a N95 respirator, half-facepiece air purifying respirator or a powered air purifying respirator while administering these three aerosolized antibiotics?	3	Always → GO TO QUESTION 29 Sometimes
27.	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 aerosolized tobramycin, amikacin or colistin? Please ✓ all that apply.		An engineering control (e.g., exhaust ventilation 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 patient's anxiety. Other (Please specify):

IF RESPONDENT MARKED MORE THAN ONE REASON IN QUESTION 27 & GO TO QUESTION 28.

ATHERWICE CO TO INCTRIDITIONS DEFORE OHECTION 20

28. Of the reasons you checked above, please indicate the **most important reason** you did not **always** wear a **respirator** while administering these three aerosolized antibiotics.

LIST REASONS MARKED IN QUESTION 27 (USE RADIO BUTTONS)

IF RESPONDENT MARKED 'N95 RESPIRATOR' OR 'HALF-FACEPIECE AIR PURIFYING RESPIRATOR' IN QUESTION 25 → GO TO QUESTION 29.

OTHERWISE # GO TO ANOTHER SUBMODULE IF INDICATED BY RESPONSES TO INTRO QUESTIONS B AND C.

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

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

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29. Have you been fit-tested for the respirator(s) you use while administering aerosolized tobramycin, amikacin or colistin?

O Yes

ALL RESPONSES JO GO TO ANOTHER SUBMODULE IF INDICATED BY RESPONSES TO INTRO QUESTIONS B AND C.

OTHERWISE ** EXIT MODULE AND GO TO CORE MODULE IF THIS IS THE FIRST HAZARD MODULE COMPLETED. IF THIS IS SECOND HAZARD MODULE COMPLETED, END SURVEY. END WITH 'THANK YOU' STATEMENT.

SUBMODULE 2: AEROSOLIZED PENTAMIDINE

30.	During your career, how long have you been administering aerosolized pentamidine (<i>Nebupent</i> ^R)?		00000	Less than one year 1-5 years 6-10 years 11-20 years More than 20 years
31.	When was the last time you received training on procedures for the safe handling of aerosolized pentamidine?	9	0	Within past 12 months More than 12 months ago I never received training
emplo	work for more than one employer, the oyer, i.e., the one for which you typica oyed, consider yourself the employer.			
32.	Does your employer have standard procedures for administering aerosolized pentamidine?		0	Yes No I don't know
	HE FOLLOWING QUESTIONS THE TIME INDAR DAYS' (DISPLAY ON SEPARATE			NTEREST IS THE 'PAST 30
33.	During the past 30 calendar days, on how many days did you administer aerosolized pentamidine?	0000000000	1 day 2 days 3 days 4 days 5 days 6-10 da 11-15 d 16-20 d 21-25 d 26-30 d	ays days days days

34.	During the past 30 calendar days, what was the total number of times you administered aerosolized pentamidine? Note: If you administered aerosolized	0000	1 time 2-3 times 4-5 times 6-10 times
	pentamidine more than one time to the same patient, count each administration separately.	ŏ	More than 10 times
35.	During the past 30 calendar days, did you administer aerosolized pentamidine	000	more times than usualfewer times than usualabout the same number of times as usual
36.	During the past 30 calendar days, how much time did you typically spend with a patient during a single administration of aerosolized pentamidine?	0000	Less than 5 minutes 5-9 minutes 10-14 minutes 15-19 minutes
	Note: Include medication preparation time, delivery time spent with patient, and clean-up time where you continue to be exposed. Exclude time spent with the patient in pre-administration assessment or any other times in the process where you are not exposed.	0	20-24 minutes More than 24 minutes
37.	During the past 30 calendar days, in which of the following areas did you administer aerosolized pentamidine? Please ✓ all that apply.		ratient's hospital room Elinic/department treatment room or area ratient's home Other location (Please specify):
IF ON	LY ONE AREA MARKED IN QUESTION 37	⁄ ∌ G	O TO QUESTION 39.
38.	Of the locations you checked above, please indicate the area where you most often administered aerosolized pentamidine during the past 30 calendar days.	(USI	AREAS MARKED IN QUESTION 37 E RADIO BUTTONS)
RESPO	SPONDENT MARKED '1 TIME' IN QUESTI ONDENT MARKED ANY OF THE OTHER F TION 40.		
39.	When you administered aerosolized pentamiding the past 30 calendar days, did you	ne durir	ng Yes No

	ause a ventilated booth or treatment station equipped with high efficiency particulate air (HEPA) filter?	()	0
	buse a hand-held, continuous aerosol delivery system (nebulizer, T-piece, mouth piece) with an expiratory filter?	()	0
	cadminister pentamidine in a negative pressure room (NPR) (i.e., air flows from adjacent areas into the NPR, ensuring that contaminated air cannot escape from the NPR to other areas)?	()	0
ALL R	ESPONSES & GO TO QUESTION 41.			
40.	When you administered aerosolized pentamidine during the past 30 calendar days, how often did you	Every time	Sometimes	Never
	ause a ventilated booth or treatment station equipped with high efficiency particulate air (HEPA) filter?	0	0	0
	buse a hand-held, continuous aerosol delivery system (nebulizer, T-piece, mouth piece) with an expiratory filter?	0	0	0
	cadminister pentamidine in a negative pressure room (NPR) (i.e., air flows from adjacent areas into the NPR, ensuring that contaminated air cannot escape from the NPR to other areas)?	0	0	0
41.	surface wipe sampling) been conducted in the past 12 months to assess your or your	es lo don't know		
equip	ions addressing work practices and use of perso ment will help us understand what is currently us nstances. Depending on your job and exposures	ed and und	er what	
42.	did vou woor o water registerst gewerer	metimes	TO QUESTION	45

43.	What were the reason(s) you did not always wear a water resistant gown or outer garment while administering aerosolized pentamidine? Please ✓ all that apply.		An engineering control (e.g., ventilated booth or stall) 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 REASON MARKED IN QUESTION	43	∌ GO TO QUESTION 45.
44.	Of the reasons you checked above, please indicate the most important reason you did not always wear a water resistant gown or outer garment while handling aerosolized pentamidine.	l	ST REASONS MARKED IN QUESTION (USE RADIO BUTTONS).
45.	In your current job, have you taken home any clothing that came into contact with pentamidine?	000	Yes No I don't know
46	During the past 20 calendar days how often		A CO TO OUTCITION 40
46.	During the past 30 calendar days, how often did you wear protective gloves while handling aerosolized pentamidine?	000	Always GO TO QUESTION 49 Sometimes Never

47.	What were the reason(s) you did not always wear protective gloves while handling aerosolized pentamidine? Please ✓ all that apply.	Not part Not provi	osure was minimal of our protocol ided by employer else who does this variable or difficulty available in work in tamination to other ed about raising the ease specify):	work uses ult to use k area er areas is not
	ILY ONE REASON MARKED IN QUESTION O QUESTION 51.	47 AND "NE	EVER" IN QUES	ΓΙΟΝ 46 ∌
1	ILY ONE REASON MARKED IN QUESTION GO TO QUESTION 49.	47 AND "SO	OMETIMES" IN C	QUESTION
		LUCT DE ACC		LOUISTION
48.	Of the reasons you checked above, please indicate the most important reason you did not always wear protective gloves while handling aerosolized pentamidine.		ONS MARKED IN ADIO BUTTONS)	
IF RE	SPONDENT MARKED "NEVER" IN QUEST	ION 46 🕏 G	O TO QUESTION	l 51
49.	During the past 30 calendar days, did you perform following activities while wearing protective glo been used during the handling of aerosolized performs.	ves that had	Yes	No
	a. Use phone/ cell phone/pager		O	0
	b. Touch a computer keyboard, mouse, monitor	, or calculator	0	0
	c. Handle files or charts		0	0
	d. Touch door knobs, cabinets or drawers		0	0
	e. Eat, drink, chew gum or smoke		0	0
	f. Use pen or pencil		0	0
	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		
50.	During the past 30 calendar days, did you remove and later put back on the protective gloves you had worn while handling aerosolized pentamidine?	Yes No			
51.	During the past 30 calendar days, how often did you wear eye protection (e.g., goggles, face shield) while administering aerosolized pentamidine? <i>Do not include personal eye glasses</i>		ys	ESTION 54	
F0	What were the reason(s) you did not always		a a nina a antual (a a		
52.	wear eye protection while administering aerosolized pentamidine? Please ✓ all that apply.	 An engineering control (e.g., ventilated booth or stall) 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 ON	ILY ONE REASON MARKED IN QUESTION	52 🗲 GO T	O QUESTION 54		
53.	Of the reasons you checked above, please indicate the most important reason you did not always wear eye protection while administering aerosolized pentamidine.		LIST REASONS IN QUESTION RADIO BUTTO	52 (USE	

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54.	During the past 30 calendar days, did you wear a aerosolized pentamidine?	any of the following while adminis	tering
	Please ✓ 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	
(EXC	AY FOLLOWING NOTE ON A SEPARATE SEPT THOSE WHO MARKED 'I DON'T KNOWIT RESPIRATORS. STANDARD SURGICAL	V': THE FOLLOWING QUESTI	IONS ASK
RESPI	SPONENT MARKED 'N95 RESPIRATOR', 'FIRATOR' OR 'POWERED AIR PURIFYING RUBESTION 55.		
	SPONDENT MARKED ONLY 'SURGICAL M. TION 54. GO TO QUESTION 56	ASK' OR 'NONE OF THE ABO	VE' IN
IF RE	SPONDENT MARKED 'I DON'T KNOW' IN	QUESTION 54 🖈 GO TO QUI	ESTION 59

How often did you wear a N95 respirator, O half-facepiece air purifying respirator or a powered air purifying respirator while administering aerosolized pentamidine? Always → GO TO QUESTION 58 55. Sometimes

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56.	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 aerosolized pentamidine?		An engineering control (e.g., ventilated booth or stall) was being used Exposure was minimal Not part of our protocol Not provided by employer
	Please ✓ all that apply.		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 MORE THAN ONE REASON MARKED IN QUESTION 56 → GO TO QUESTION 57. OTHERWISE, GO TO INSTRUCTIONS BEFORE QUESTION 58

57. Of the reasons you checked above, please indicate the **most important reason** you did not **always** wear a **respirator** while administering aerosolized pentamidine.

LIST REASONS MARKED IN QUESTION 56 (USE RADIO BUTTONS)

IF RESPONDENT MARKED 'SURGICAL N95 RESPIRATOR' OR 'HALF-FACEPIECE AIR PURIFYING RESPIRATOR' IN QUESTION 54 → GO TO QUESTION 58.

OTHERWISE # GO TO ANOTHER SUBMODULE IF INDICATED BY RESPONSES TO OUESTIONS A AND C.

OTHERWISE, JEXIT MODULE AND GO TO CORE MODULE IF THIS IS THE FIRST HAZARD MODULE COMPLETEDINDICATED.

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

58. Have you been fit-tested for the respirator(s) Yes you use while administering aerosolized No pentamidine?

ALL RESPONSES J GO TO ANOTHER SUBMODULE IF INDICATED BY RESPONSES TO QUESTIONS A AND C. OTHERWISE, JEXIT MODULE AND GO TO CORE MODULE IF THIS IS THE FIRST HAZARD MODULE COMPLETEDINDICATED.

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

SUBMODULE 3: AEROSOLIZED RIBAVIRIN

59.	During your career, how long have you been administering aerosolized ribavirin (<i>Virazole</i> ^R)?		Less than one year 1-5 years 6-10 years 11-20 years More than 20 years
emplo	When was the last time you received training on procedures for the safe handling of aerosolized ribavirin? work for more than one employer, the folloyer, i.e., the one for which you typically w	More I neve	
emplo 61.	Does your employer have standard procedures for administering aerosolized ribavirin?	0	Yes No I don't know
62.	During the past 7 calendar days, on how many days did you administer aerosolized ribavirin?	0000000	1 day 2 days 3 days 4 days 5 days 6 days 7 days
63.	During the past 7 calendar days, what was the total number of times you administered aerosolized ribavirin? Note: If you administered aerosolized ribavirin more than one time to the same patient, count each administration separately.	00000	1 time 2-3 times 4-5 times 6-10 times More than 10 times
64.	During the past 7 calendar days, did you administer aerosolized ribavirin	0	more times than usualfewer times than usualabout the same number of times as usual

c. ...administer ribavirin in a negative pressure room (NPR) (i.e., air flows from adjacent areas into the NPR, ensuring that contaminated air cannot escape from the

NPR to other areas)?

ALL RESPONSES # GO TO QUESTION 70.

69.	When you administered aerosolized ribavirin during the past 7 calendar days, how often did you			
		Every time	Sometimes	Never
	ause an aerosol delivery hood within a ventilated isolation tent equipped with HEPA filter system to remove fugitive aerosols that cannot be contained?	0	0	0
	buse a ventilator equipped with an expiratory high efficiency particulate air (HEPA) exhaust filter?	0	0	0
	cadminister ribavirin in a negative pressure room (NPR) (i.e., air flows from adjacent areas into the NPR, ensuring that contaminated air cannot escape from the NPR to other areas)?	0	0	0
RESPO	SPONDENT MARKED '1 TIME' IN QUESTION 63 ONDENT MARKED ANY OF THE OTHER RESPO TION 71.			
70.	During the past 7 calendar days when you administered aerosolized ribavirin, did you	Yes		No
	ainspect the aerosol delivery system for leaks or worn parts prior to use?	0		0
	buse a nebulizer with an automatic shutoff valve?	0		0
	cdiscontinue nebulization of medication while patient is not breathing the aerosol?	0		0
ALL R	ESPONSES & GO TO QUESTION 72.			
71.	During the past 7 calendar days when you administered aerosolized ribavirin, how often did you			
		Always S	Sometimes	Never
	ainspect the aerosol delivery system for leaks or worn parts prior to use?	0	0	0
	buse a nebulizer with an automatic shutoff valve?	0	0	0

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	cdiscontinue nebulization of medication while patient is not breathing the aerosol?	Э	0	0	0
72.	Has exposure monitoring (e.g., air sampling, surface wipe sampling) been conducted in the past 12 months to assess your or your co-workers' exposure to ribavirin?		Yes No I don't know	ve clothing	and
equip	ment will help us understand what is current ments. Depending on your job and exp	ently	y used and und	er what	
73.	During the past 7 calendar days, how often did you wear a water resistant gown or outer garment while administering aerosolized ribavirin?	000	Always 🕏 GO Sometimes Never) TO QUES	TION 76
74.	What were the reason(s) you did not always wear a water resistant gown or outer garment while administering aerosolized ribavirin? Please ✓ all that apply.		An engineering of and/or exhaust vused Skin exposure w Not part of our provided by No one else who them Too uncomfortal Not readily availa Cross contamina a concern Concerned about anxiety Other (Please sp	rentilation) was minimal rotocol employer o does this woole or difficult able in work attion to other attractions the process of the resistance of the resistance of the process of the pr	ork uses to use area areas is not

IF ONLY ONE REASON MARKED IN QUESTION 74 → GO TO QUESTION 76.

75. Of the reasons you checked above, please indicate the **most important reason** you did not always wear a **water resistant gown or outer garment** while handling aerosolized ribavirin.

MODULE A: Aerosolized Medications

LIST REASONS MARKED IN QUESTION 74 (USE RADIO BUTTONS)

MODULE A: Aerosolized Medications
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76.	In your current job, have you taken home a clothing that came into contact with aerosolized ribavirin?		Yes No I don't know			
77.	During the past 7 calendar days, how often did you wear protective gloves while handling aerosolized ribavirin?	0		ays 🗲 GO T netimes ver	O QUESTIO	ON 80
78.	What were the reason(s) you did not alway wear protective gloves while handling aerosolized ribavirin? Please ✓ all that apply	/S		Skin exposu Not part of o Not provided No one else them Too uncomfo Not readily a Cross contai a concer Concerned a anxiety Other (Pleas	ur protocol by employe who does th ortable or diff vailable in w mination to o n bout raising	r is work uses icult to use ork area ther areas is not
"NEV	SPONDENT MARKED ONLY ONE REAER" IN QUESTION 77 & GO TO QUESSPONDENT MARKED ONLY ONE REAETIMES" IN QUESTION 77 & GO TO	STIOI SON	N 8: IN	2. QUESTION		
79.	Of the reasons you checked above, please indicate the most important reason you do not always wear protective gloves while handling aerosolized ribavirin.			T REASONS (USE RADI		IN QUESTION S)
80.	During the past 7 calendar days, did you perfollowing activities while wearing protectiv had been used during the handling of aero	e glo	ves	that	Yes	No
	a. Use phone/ cell phone/pager				0	0
	b. Touch a computer keyboard, mouse, monitor or calculator				0	0
	c. Handle files or charts				0	0
	d. Touch door knobs ,cabinets or drawers				0	0

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	e. Eat, drink, chew gum or smoke			0	0
	f. Use pen or pencil			O	0
	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
81.	During the past 7 calendar days, did you remove put back on the protective gloves you had wor handling aerosolized ribavirin?			O Yes O No	
82.	During the past 7 calendar days, how often did wear eye protection (e.g., goggles, face shield while administering aerosolized ribavirin? <i>Do ninclude personal eye glasses.</i>)	0	Always GO TO 085 Sometimes Never	QUESTION
83.	What were the reason(s) you did not always wear eye protection while administering aerosolized ribavirin? Please ✓ all that apply.		An engineering control (e.g., enclosure and/or exhaust ventilation) 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		was being work uses alt to use k area

IF ONLY ONE REASON MARKED IN QUESTION 83 & GO TO QUESTION 85.

84. Of the reasons you checked above, please indicate the most important reason you did not always wear eye protection while administering aerosolized ribavirin.

LIST REASONS MARKED IN QUESTION 83 (USE RADIO BUTTONS).

85. During the past 7 calendar days, did you wear any of the following **while administering aerosolized ribayirin?**

Please \checkmark all that apply.

■N95 respirator (includes surgical mask)





Powered air purifying respirator (PAPR)



□ None of above

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

Standard surgical mask



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 85 → GO TO QUESTION 86

IF RESPONDENT MARKED ONLY 'SURGICAL MASK' OR 'NONE OF THE ABOVE' IN QUESTION 85. GO TO QUESTION 87

IF RESPONDENT MARKED 'I DON'T KNOW' IN QUESTION 85 → GO TO ANOTHER SUBMODULE IF INDICATED BY RESPONSES TO INTRO QUESTIONS A AND B.

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86.	How often did you wear a surgical N95 respirator, half-facepiece air purifying respirator or a powered air purifying respirator while administering aerosolized ribavirin?	□ Always → GO TO QUESTION 89□ Sometimes
87.	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 aerosolized ribavirin? Please ✓ all that apply.	An engineering control (e.g., enclosure and/or exhaust ventilation) 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 87 → GO TO QUESTION 88.

OTHERWISE, GO TO INSTRUCTIONS BEFORE QUESTION 89

88. Of the reasons you checked above, please indicate the **most important reason** you did not **always** wear a **respirator** while handling aerosolized ribayirin.

LIST REASONS MARKED IN QUESTION 87 (USE RADIO BUTTONS)

IF RESPONDENT MARKED 'N95 RESPIRATOR' OR 'HALF-FACEPIECE AIR PURIFYING RESPIRATOR' IN QUESTION 85. → GO TO QUESTION 89.

OTHERWISE JO TO ANOTHER SUBMODULE IF INDICATED BY RESPONSES TO INTRO QUESTIONS A AND B.

OTHERWISE, ** EXIT MODULE AND GO TO CORE MODULE IF THIS IS THE FIRST HAZARD MODULE COMPLETED.

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

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89. Have you been fit-tested for the respirator(s) you use while administering aerosolized ribavirin?

O Yes

ALL RESPONSES JO GO TO ANOTHER SUBMODULE IF INDICATED BY RESPONSES TO INTRO QUESTIONS A AND B.

OTHERWISE, ** EXIT MODULE AND GO TO CORE MODULE IF THIS IS THE FIRST HAZARD MODULE COMPLETED. IF THIS IS 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.