Appendix K: Asthma in Healthcare Survey

Eligibility Questions

E1. Are you 18 years of age or older?

No	Yes
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IF 'No': Thank you for your interest in the survey. Unfortunately you are not eligible to participate. IF 'Yes': Go to Question E2

E2. What is your <i>current</i> employment status? <i>Please mark the single best answer</i> . Currently employed in the healthcare industry Employed outside of the healthcare industry Unemployed Disabled On family leave On extended sick leave Retired Student Other, please specify:	
IF answer 'currently employed in the healthcare industry: Go to Question 1	
IF answer 'employed outside of the healthcare industry: Go to Question E3	
<u>IF answer 'unemployed, disabled, on family leave, on extended six leave, retired, student or othe</u>	er: Go to
Question E6	
E3. Please write in the title for the job you had 5 years ago.	
E4. What did you do at the job you had 5 years ago?	
E5. What was the name of the company where you worked 5 years ago?	
E6. Are you not working in the healthcare industry due to respiratory problems related	Yes
to work?	

IF 'Yes' or 'No': Thank you for your interest in the survey. Unfortunately you are not eligible to participate.

Respiratory Symptoms			
1 Have you had wheezing or whistling in your chest at any time in the last 12 months ?	No Yes		
IF 'No': Go to Question 2 IF 'Yes':			
1.1 Have you been at all breathless when the wheezing noise was present?1.2 Have you had this wheezing or whistling when you did <i>not</i> have a cold?	No Yes		
2 Have you woken up with a feeling of tightness in your chest at any time in the last <i>12 months</i> ?	No Yes		
3 Have you had an attack of shortness of breath at any time in the last <i>12 months</i> ?	No Yes		
4 Have you had an attack of shortness of breath that came on during the day when you were at rest at any time in the last <i>12 months</i> ?	No Yes		
5 Have you had an attack of shortness of breath that came on <i>following</i> strenuous activity at any time in the last <i>12 months</i> ?	No Yes		
6 Have you been woken by an attack of shortness of breath at any time in the last <i>12 months?</i>	No Yes		
7 In the last 12 <i>months</i> , have you <i>usually</i> coughed during the day, or at night, in the winter?	No Yes		
IF 'No': Go to Question 8 IF 'Yes':			
7.1 In the last 12 months , have you coughed like this on most day for as much as 3 months?	□No □Yes		
8 Have you been woken by an attack of coughing at any time in the last <i>12 months</i> ?	No Yes		
9 In the last 12 <i>months</i> , have you <i>usually</i> brought up any phlegm (mucous) from your chest during the day, or at night, in the winter?	No Yes		
IF 'No': Go to Question 10 IF 'Yes':			
9.1 In the last 12 months , have you brought up phlegm (mucous) like this on most days for as much as 3 months?	No Yes		
10 When you are near animals, such as cats, dogs or horses, do you <i>ever</i>:Get itchy or watery eyes?Get a feeling of tightness in your chest?Stuffy nose or sinus congestion or pressure?	No Yes No Yes No Yes		

11 When you are in a dusty part of the house, or near pillows or comforters do you *ever*:

Get itchy or watery eyes? Get a feeling of tightness in your chest? Stuffy nose or sinus congestion or pressure?

12 When you are near trees, grass, or flowers, or when there is a lot of pollen around, do you ever:

Get a feeling of tightness in your chest? Stuffy nose or sinus congestion or pressure? *Question 13 asks about trouble breathing EVER IN YOUR LIFE* 13 Have you *ever* had trouble with your breathing? *IF 'No': Go to Question 15 IF 'Yes':* 13.1 What kind of trouble did you have? *Mark single best answer*. Continuously, as if breathing is not quite right. Repeatedly, however gets completely better Only rarely

13.2 Was this trouble with your breathing brought on by your work environment?

IF 'No': Go to Question 15 IF 'Yes': Go to Question 14

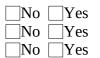
Get itchy or watery eyes?

14 Which exposures at work cause or trigger trouble breathing or respiratory symptoms like wheezing, chest tightness, shortness of breath, cough, or phlegm? *Please mark as many of the triggers as apply to you.*

Workplace Symptom Triggers

Asthma

Cleaning products
Floor strippers or waxes
Disinfecting or sterilizing solutions
Hand sanitizers, liquid
Adhesives, glues, or removers
Aerosolized medications
Gases or vapors
Latex products
Very cold or very hot temperatures
If other triggers at work not listed, please specify:
a)
b)
c)
d)
Don't know
<pre>If other triggers at work not listed, please specify: a) b) c) d)</pre>



No Yes

No Yes

No Yes

No	Yes

No Yes

16. Have you EVER had an episode of asthmatic symptoms?	□No □Yes		
<u>IF 'YES' to BOTH questions 15 and 16: Continue with Question 17</u> IF 'NO' to ONE OR BOTH of questions 15 and 16: Go to Question 27			
17 How old were you when you had your first episode of asthma symptoms?	_ years		
18 Were you employed when you had your first episode of asthma symptoms?	No Yes		
<i>IF 'No': Go to Question 19</i> <i>IF 'Yes':</i> When you had your first episode of asthmatic symptoms:			
18.1 What type of job did you have? Job title:			
18.2. What did you do in this job?	-		
18.3 What type of company did you work for?	-		
19 Has your asthma been confirmed by a doctor?	No Yes		
IF 'No': Go to Question 20			
<u>IF 'Yes':</u>			
19.1 At what age was your asthma confirmed by a doctor? years old			
20 After onset of asthma, did you ever have a period when you did not have asthma symptoms?	NoYes		
<u>IF 'No': Go to Question 21</u> <u>IF 'Yes':</u>			
20.1 At what age did your asthma symptoms disappear? years old 20.2 Did your asthma symptoms reappear?	No Yes		
<u>IF 'No': Go to Question 21</u> <u>IF 'Yes':</u>			
20.2.1 At what age did your asthma symptoms reappear? years old 20.2.2 Were you employed when your asthma symptoms reappeared?	No Yes		
IF 'No': Go to Question 21 IF 'Yes':			
20.2.2.1 What type of job did you have? Job title:			
20.2.2.2 What did you do in this job?			
20.2.2.3 What type of company did you work for?			

21 Have you had an attack of asthma in the last 12 months ? An asthma attack or asthma episode is when your asthma symptoms become worse than usual.				
IF 'NO': 21.1 In what year did you have your last attack of asthma? IF 'YES': 21.2 How many attacks of asthma have you had in the last 12 months? Enter approximate number. attacks				
22 Are you currently taking any medications for asthma including inhalers, aerosols or tablets?	□No □Yes			
IF 'No': Go to Question 23 IF 'Yes':				
22.1 In the last <i>12 months</i> , did you use fast-acting (or rescue) <u>bronchodilators</u> for asthma?	□No □Yes			
IF 'No': Go to Question 22.2 IF 'Yes':				
22.1.1 In the last 12 months , were there times when you increased your usage of fast-acting (or rescue) <u>bronchodilators</u> on a short-term basis (over a period from 2 days to 2 weeks)?	No Yes			
22.2 In the last <i>12 months</i> , did you use <u>inhaled steroids</u> for asthma?	No Yes			
IF 'No': Go to Question 22.3 IF 'Yes':				
22.2.1 In the last <i>12 months</i> , were there times when you increased your usage of <u>inhaled steroids</u> on a short-term basis (over a period from 2 days to 2 weeks)?	No Yes			
22.3 In the last <i>12 months</i> , did you use <u>oral steroids</u> (for example, prednisone) for asthma?	No Yes			
IF 'No': Go to Question 23 IF 'Yes':				
22.3.1 In the last 12 <i>months</i> , were there times when you increased your usage of <u>oral steroids</u> on a short-term basis (over a period from 2 days to 2 weeks)?	No Yes			
23 Have you had to miss any days of work due to asthma in the last <i>12 months</i> ?	□No □Yes			
IF 'No': Go to Question 24 IF 'Yes':				
23.1 How many days of work did you have to miss due to asthma in the last 12 months ? <i>Enter approximate number.</i> days				
24 Did you ever go to work in the last <i>12 months</i> even though your asthma symptoms were especially bad?	No Yes			
IF 'No': Go to Question 25 IF 'Yes':				
24.1 On how many days in the last <i>12 months</i> did you go to work even though your asthma symptoms were especially bad? <i>Enter approximate number</i> days				

25 Have you ever been hospitalized overnight (or longer) for asthma?	No Yes
<u>IF 'No': Go to Question 26</u> <u>IF 'Yes':</u>	
25.1 In the last <i>12 months</i> , were you hospitalized overnight for asthma?	No Yes
26 In the last 12 months , did you get urgent treatment for an asthma attack at a doctor's office, urgent care facility, or emergency department (ER)? <i>Do not count routine planned appointments</i> . (An asthma attack or asthma episode is when your asthma symptoms become worse than usual.)	□No □Yes
<u>IF 'No': Go to Question 27</u> <u>IF 'Yes':</u>	
26.1 In the last <i>12 months</i> , how many times did you get urgent treatment for an asthma	

attack at a doctor's office, urgent care facility, or emergency department (ER)? *Do not count routine planned appointments.* ______ times

Medical History

27 Have you ever had any of the following medical conditions?	
Chronic obstructive pulmonary disease, or COPD	No Yes Don't Know
Emphysema	No Yes Don't Know
Nasal or sinus allergies, including hay fever	No Yes Don't Know
Eczema or any kind of skin allergy	No Yes Don't Know
Allergies to animals	No Yes Don't Know
Allergies to dust or dust mites	No Yes Don't Know
Allergies to latex or latex-containing products (ace bandages/adhesive	No Yes Don't Know
tape/gloves)	
28 Has your biological mother had the following medical conditions?	
Asthma	No Yes Don't Know
Hay fever, eczema, or skin allergies	No Yes Don't Know
29 Has your biological father had the following medical conditions?	
Asthma	No Yes Don't Know
Hay fever, eczema, or skin allergies	No Yes Don't Know

Home

No Yes

No Yes

No Yes

Don't Know

Don't Know

Don't Know

No Yes Don't Know

30 In the last **12 months**, have you observed any of the following in your house or apartment?

Water leakage or water damage indoors on walls, floors, or ceilings Visible mold growth (not on food) indoors on walls, floors, or ceilings Odor of mold or mildew (not from food)

31 In the last 12 months ,	have there been any	renovations or	construction in
your house or apartment?			

32 In the last **12 months**, how often have you personally cleaned your own home?

Never
Less than 1 day per week
1-2 days per week
3-4 days per week
5-7 days per week

IF 'NEVER': Go to Question 34 IF ANY ANSWER OTHER THAN 'NEVER': Go to Question 33

33 In the last **12 months**, how many days a week have you used each of the following <u>cleaning products</u> in your own home?

	Never	Less than 1	1-2 days	3-4 days	5-7 days
		day per week	per week	per week	per week
Any spray cleaning product					
Bleach like Clorox [®]					
Ammonia products, like Mr. Clean Top Job [®]					
Window cleaners, like Windex [®]					
Air freshening sprays, like Febreze [®] or					
Glade [®]					

Accidental Chemical Spill or Release

34 Were you ever involved in or near an accidental chemical spill or release?
IF 'No': Go to Question 35 IF 'Yes': Go to Question 34.1
34.1 In what year did the most recent accidental chemical spill or release
34.2 Where did this most recent accidental chemical spill or release
34.3 What were you exposed to? <i>Please write in answer</i> .
34.4 Did you have to receive medical attention because of the most recent
34.5 In the first 24 hours following the most recent accidental exposure, did NoYesDon't Know you experience any respiratory symptoms such as shortness of breath, wheezing, cough, or tightness in your chest?
<u>IF 'No': Go to Question 35</u> IF 'Yes': Go to Question 34.5.1
 34.5.1 How long did these symptoms last? Less than 1 week 1 week to 1 month More than 1 month but less than 3 months 3 months or longer Don't know

Employment History

History of Healthcare Work

35 Please record the age when you started working in healthcare OR the age	
you began as a healthcare student, whichever was earlier.	years old
36 <u>How many total years</u> have you worked in healthcare? (<i>Include years you</i>	
were a healthcare student.)	years

Current Employment

If you have more than one current healthcare job, record information for the job where you work the most hours per week.

37 What is the name of hospital, nursing home or other facility where you currently work:______

38 In which borough of New York City or nearby city is the hospital, nursing home or other facility where you currently work: ______

39 What is your <i>current</i> occupation?
Dental assistant
Environmental service worker, housekeeper, or cleaner
Lab technician, lab technologist, or assistant in a medical or clinical laboratory
Licensed practical nurse (LPN) or licensed vocational nurse (LVN)
Medical instrument preparer, central supply worker or endoscopy technician
Nursing assistant, nurse technician, nurse support assistant, patient care technician, patient
support or orderly
Operating room technician
Registered nurse (RN)
Respiratory therapist or respiratory technician
Other, please specify
40 In what type of facility do you <i>currently</i> work?
Hospital
Nursing home
Both hospital and nursing home
Other, please specify
Outer, prease specify
41 Where do you work in the facility? <i>Please mark the single best answer</i> .
Patient care ward
Administration
Central supply
Dental
Ear, nose, and throat (ENT)
Education
Emergency room (ER)
Endoscopy
Float or multiple locations
General or internal medicine
Intensive care
Labor and delivery
Laboratory, medical and clinical
Non-patient care area
Pulmonary
Surgery or operating room
Other location, please specify

42 How many hours do you typically work per week in your <i>current</i> job?	hours per week
43 What year did you begin your <i>current</i> job?	
44 In this job, are you regularly exposed to vapors, gases, dusts, or fumes?	☐ No ☐Yes ☐Don't Know
<u>IF 'NO': Go to Question 45</u> IF 'YES': Continue with Question 44.1	
44.1 To what vapors, gases, dusts, or fumes are you exposed regularly? Pleas	se write in answer.
45 In the last 12 months , did you observed any of the following in the area(s)	where you work?
Water leakage or water damage indoors on walls, floors, or ceilings Visible mold growth (not on food) indoors on walls, floors, or ceilings? Odor of mold or mildew (not from food)?	NoYesDon't KnowNoYesDon't KnowNoYesDon't Know
46 In the last 12 months, did you observe any of the following renovations or cor you work?	nstruction in, or next to, the area(s) where

Painting walls and fixtures? Ripping out and replacing walls, woodwork, and partitions? Ripping out and replacing floors, carpets, and fixed furniture?

No Yes	Don't Know
No Yes	Don't Know
No Yes	Don't Know

Use of Hand Sanitizers

47 How many times on a typical day, both at home and at work, do you disinfect your hands with liquid hand sanitizers? Never

INCVCI		
1-3 times	per	day

- 4-10 times per day More than 10 times per day

48. Do you sterilize or high-level disinfect medical instruments, including dental instruments or ventilator parts, in central supply or other locations such as endoscopy and bronchoscopy units, hemodialysis units, operating rooms, or other clinical settings?

IF 'YES': Generate questions 50.1 - 50.8.1

49. Do you clean or disinfect fixed surfaces, equipment, or instruments?

Examples of fixed surfaces are: countertops, floors, beds, and bathrooms. Examples of equipment are: IV poles, monitors, carts, and computers. Examples of instruments are: blood pressure cuffs, and stethoscopes.

IF 'YES': Generate questions 51.1 - 51.6.1

□ No □ Yes

Sterilizing Medical Instruments

50.1. Which of the following sterilants or high-level disinfectants do you use to sterilize medical instruments?

Acetic acid	No	Yes	Don't Know
Alcohol, such as ethanol or isopropanol	No	Yes	Don't Know
Bleach or chlorine, such as Clorox [®]	No	Yes	Don't Know
Enzymatic cleaners, such as Asepti-Zyme [®] , 3M Rapid Multi-Enzyme [®]	No	Yes	Don't Know
Ethylene oxide in compressed-gas cylinders, single-dose cartridges or glass ampules	No	Yes	Don't Know
Formaldehyde	No	Yes	Don't Know
Glutaraldehydes such as Cidex [®] , Metricide [®] , Rapicide [®] , Wavicide [®] , Aldahol III [®] , Sporicidin [®]	No	Yes	Don't Know
Hydrogen peroxides such as Accell [®] , Optim [®] , Resert XL [®] , Sporox [®] , Acecide [®] , EndoSpor Plus [®] , Metrex [®] , Peract [®] , Sterad [®]	No	Yes	Don't Know
Hypochlorite or hypochlorous acids such as Sterilox [®]	No	Yes	Don't Know
Ortho-phthalaldehydes such as Cidex OPA [®] , Opaciden [®]	No	Yes	Don't Know
Peracetic acid such as Steris [®]	No	Yes	Don't Know

Please write any other sterilizing or high-level disinfecting chemicals or product names you use



Chemical or Product Names	Days per week	Gloves Worn
<< Piped in answer from 50.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 50.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 50.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 50.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 50.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 50.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 50.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 50.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 50.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 50.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 50.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>

Please indicate how many days per week you use those products and the type of gloves used.

On a typical day when you use sterilants or high-level disinfectants

50.2. How many *times per day* do you use these products?

1-3 times per day

4-10 times per day

More than 10 times per day

50.3. How many **hours per day** do you use these products?

Less than 1 hour per day 1-4 hours per day

More than 4 hours per day

50.4. In the last **12 months**, have you ever prepared medical instruments for sterilization **by manually disassembling instruments, removing gross contaminants, or flushing gross contaminants and waste**?

🗌 No 🗌 Yes 🗌 Don't Know

IF 'NO': GO TO QUESTION 50.5 IF 'YES': CONTINUE WITH QUESTION 50.4.1

50.4.1. When you remove gross contaminants and waste from scopes and instruments, please indicate how many days per week, times per day, duration of task and the type of gloves used when you perform this task.

Ρ.	er ween, ames per auf, analish or ash and the type of Bioves asea when you perform this down			
	<u>Days per week</u>	<u>Times per day</u>	Duration of Task	<u>Gloves Worn</u>
	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>

50.5. In the last **12 months**, have you ever prepared medical instruments for sterilization **by refilling or changing sterilization solutions**?

🗌 No 🗌 Yes 🗌 Don't Know

IF 'NO': GO TO QUESTION 50.6 IF 'YES': CONTINUE WITH QUESTION 50.5.1

50.5.1 When you refill or change sterilization solutions, please indicate how many days per week, times per day, duration of task and the type of gloves used when you perform this task.

<u>Days per week</u>	<u>Times per day</u>	Duration of Task	<u>Gloves Worn</u>
< <select dropdown="" from="">></select>			

50.6. In the last **12 months**, have you ever **manually** sterilized medical instruments? No Yes Don't Know

IF 'NO': GO TO QUESTION 50.7 IF 'YES': CONTINUE WITH QUESTION 50.6.1

50.6.1 When you **manually** sterilize medical instruments, please indicate how many days per week, times per day, duration of task and the type of gloves used when you perform this task.

<u>Days per week</u>	<u>Times per day</u>	Duration of Task	<u>Gloves Worn</u>
< <select dropdown="" from="">></select>			

50.6.2. Do you use a sterilants immersion container when you sterilize or high-level No Yes Don't Know disinfect medical instruments?

IF 'NO': GO TO QUESTION 50.7 IF 'YES': CONTINUE WITH QUESTION 50.6.2.1

 50.6.2.1. What conditions apply when using a sterilants immersion container?

 Enclosed box or exhaust hood used

 Emersion box equipped with a tight fitting lid

 Local exhaust ventilation is used in room

 Sole

 No

 Yes

 Don't Know

 No

 Yes

 Don't Know

IF 'NO': GO TO QUESTION 51 **IF 'YES': CONTINUE WITH QUESTION 50.7.1**

50.7.1. Which tasks do you perform to sterilize medical instruments using automated systems? e.

Please indicate if you perform these tasks listed in the following table
--

	Do you perform this task?		
Tasks			
Operate Ethylene oxide sterilizer	No Yes Don't Know		
Operate plasma hydrogen peroxide Sterad [®] system	No Yes Don't Know		
Operate Steris [®] system	No Yes Don't Know		
Conduct maintenance on systems, such as cleaning or replacing screens and filters	No Yes Don't Know		

Please indicate how many days per week, times per day, duration of task, and the type of controls used.

					<u>C</u>	<u>ontrols</u>
Tasks		<u>iys per</u> week	<u>Times per</u> <u>day</u>	<u>Duration of</u> <u>Task</u>	Is system enclosed?	Is local exhaust ventilation used?
<< Piped in answer from	~~3	elect from pdown>>	< <select from<br="">Dropdown>></select>	< <select from<br="">Dropdown>></select>	< <select from<br="">Dropdown>></select>	< <select from<br="">Dropdown>></select>
<< Piped in answer from	~~5	elect from pdown>>	< <select from<br="">Dropdown>></select>	< <select from<br="">Dropdown>></select>	< <select from<br="">Dropdown>></select>	< <select from<br="">Dropdown>></select>
<< Piped in answer from	~~>	elect from pdown>>	< <select from<br="">Dropdown>></select>	< <select from<br="">Dropdown>></select>	< <select from<br="">Dropdown>></select>	< <select from<br="">Dropdown>></select>
<< Piped in answer from	~~5	elect from pdown>>	< <select from<br="">Dropdown>></select>	< <select from<br="">Dropdown>></select>	< <select from<br="">Dropdown>></select>	< <select from<br="">Dropdown>></select>

50.8. Do you rinse or flush sterilized medical instruments with alcohol?

No Yes

IF 'NO': GO TO QUESTION 51 **IF 'YES': CONTINUE WITH QUESTION 50.8.1**

50.8.1. After rinsing or flushing with alcohol do you use forced air to dry medical instruments?

No Yes

<u>Cleaning Fixed Surfaces, Equipment or Instruments</u></u>

51.1 Which cleaners or disinfectants do you use for cleaning fixed surfaces, equipment, or instruments?

Chemical or Product Names	<u>Do you use this chemical or</u> <u>product?</u>		
Glass cleaning products such as Windex [®]	No	Yes	Don't Know
Acids	No	Yes	Don't Know
Alcohol, such as ethanol and isopropanol	No	Yes	Don't Know
Ammonia	No	Yes	Don't Know
Bleach or chlorine, such as Clorox [®]	No	Yes	 Don't Know
Detergents	No	Yes	Don't Know
Enzymatic cleaners such as Asepti-Zyme [®] , 3M Rapid Multi- Enzyme [®]	No	Yes	Don't Know
Floor wax stripper	No	Yes	Don't Know
Phenolics, such as 3M Phenolic Disinfectant 18 [®] , WexCide [®] , MicroBakII [®] , Megacide [®] , Novigard [®] , Sporicidin [®]	No	Yes	Don't Know
Quaternary ammonium compounds "Quats", such as 3M Neutral Quat 23®, 3M HB Quat 25®, Sani-Cloth Plus®, Oasis®, Staphene®, BTC100®, BioQuat®, Sentinel®	No	Yes	Don't Know
Please write any other cleaning or disinfection chemicals or product surfaces, equipment, or instruments			
1.			
2.			
3.			
4.			
5.			
6.			

Please indicate how many days per week you use those products and the type of gloves used.

Chemical or Product Names	Days per week	Gloves Worn
<< Piped in answer from 51.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 51.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 51.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 51.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 51.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 51.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 51.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>

<< Piped in answer from 51.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 51.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 51.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>
<< Piped in answer from 51.1>>	< <select dropdown="" from="">></select>	< <select dropdown="" from="">></select>

On a typical day when you use cleaners or disinfectants on fixed surfaces, equipment, or instruments:

51.2 How many **times per day** do you use these products?

- 1-3 times per day
- 4-10 times per day
- More than 10 times per day

51.3 How many **hours per day** do you use these products?

- Less than 1 hour per day
- 1-4 hours per day
- More than 4 hours per day
- 51.4 Do you use more sprays or more wipes, or do you use both equally often? *Select the ONE best answer*.
 - Use more sprays than wipes
 - Use more wipes than sprays
 - Use sprays and wipes about equally
 - Not sure which I use more

51.5 Which tasks do you perform when cleaning or disinfecting fixed surfaces, equipment, or instruments?

Tasks	<u>Do y</u>	ou perfor	<u>m this task?</u>
Wipe down beds, furniture, counters, walls, etc.	No	Yes	Don't Know
Cleanup spills or blood	No	Yes	Don't Know
Manually mix, refill, or empty cleaning or disinfecting products	No	 Yes	 Don't Know
Clean bathrooms including toilet, sink, shower	No	 □Yes	Don't Know
Spray then wipe glass, windows, mirrors	No	Yes	Don't Know
Polish wood furniture	No	Yes	Don't Know
Polish stainless steel surfaces	No	Yes	Don't Know
Spray deodorant/ disinfectant	No	Yes	Don't Know
Mop floors	No	Yes	Don't Know
Clean equipment such as scissors, stethoscopes, and thermometers, IV poles, carts, monitors, and computers	No	Yes	Don't Know
Conduct terminal cleaning of patient rooms	No	Yes	Don't Know
Clean or disinfect for MRSA, VRE or other drug resistant bacteria in patient rooms	No	Yes	Don't Know
Conduct end of shift cleaning of operating rooms, dialysis units or other patient care areas	No	Yes	Don't Know

Please indicate how many days per week, times per week, duration of task, and the type of gloves used.

	Days per	Times per	Duration of	Gloves
Tasks	week	day	<u>Task</u>	<u>Worn</u>
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🗌 No 🗌 Yes 🗌 Don't Know

IF 'NO': GO TO QUESTION 52 IF 'YES': CONTINUE WITH QUESTION 51.6.1

Do you perform this task? Tasks No Strip floors Yes Don't Know Scrape floors No Yes Don't Know Buff floors No Yes Don't Know No Don't Know Wax floors Yes

51.6.1 Which tasks do you perform when cleaning and waxing floors using strippers and buffers?

Please indicate how many days per week, times per day, duration of task, and the type of gloves used.

Tasks	Days per	<u>Times per</u>	<u>Duration of</u> Task	<u>Gloves Worn</u>
	week	<u>day</u>		
<< Piped in answer from 51.6.1>>	<select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""></select></td></select></td></select></td></select>	< <select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""></select></td></select></td></select>	< <select from<="" td=""><td><<select from<="" td=""></select></td></select>	< <select from<="" td=""></select>
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Exposure to Chemicals Used in Medical or Clinical Laboratories

Thinking about your current job and what you have done in this job in the last 12 months:

52. Have you worked in a clinical or medical laboratory?

□ No □Yes

IF 'NO': GO TO QUESTION 53 IF 'YES': CONTINUE WITH QUESTION 52.1

52.1 Which tasks do you perform or use when you work in the clinical or medical laboratory?

	Do you perform this task?		
Tasks			
Use formalin to fix gross tissue and autopsy specimens	No	Yes	Don't Know
Use stains and dyes such as hematoxylin and eosin stains	No	Yes	Don't Know
Use solvents such as xylene and toluene to fix tissue specimens and rinse stains	No	Yes	Don't Know

Please indicate how many days per week, times per day, duration of task, and the type of controls present.

				<u>Co</u>	<u>ntrols</u>
Tasks	<u>Days per</u> <u>week</u>	<u>Times per</u> <u>day</u>	<u>Duration</u> <u>of Task</u>	Tasks performed in a fume hood	Task performed using bench-top local exhaust ventilation?
<< Piped in answer from 52.1>>	< <select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""></select></td></select></td></select></td></select></td></select>	< <select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""></select></td></select></td></select></td></select>	< <select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""></select></td></select></td></select>	< <select from<="" td=""><td><<select from<="" td=""></select></td></select>	< <select from<="" td=""></select>
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Exposure to Products Used on Patients

Thinking about your current job and what you have done in this job in the last **12 months**:

53. Do you <u>use chemicals, adhesives, antiseptics, alcohols, or solvents,</u> such as solutions to remove adhesives, iodine, hydrogen peroxide, super glue, bone cement, alcohols, alcohol preps, mineral spirits, or toluene, <u>on patients</u>?

IF 'NO': GO TO QUESTION 54 IF 'YES': CONTINUE WITH QUESTION 53.1

53.1 Which tasks do you perform when you apply or use <u>chemicals</u>, <u>antiseptics</u>, <u>adhesives</u>, <u>alcohols</u>, <u>or solvents on patients</u>?

	<u>Do you perform this task?</u>		
Tasks and Chemical		-	
Disinfect skin areas on patients prior to procedure using wipes, gauze or swabs with antiseptics such as alcohols, iodine, acetic acid to	No	Yes	Don't Know
Clean and disinfect wounds using antiseptics such as, silver compounds, chlorhexidine, povidone iodine or cadexomer iodine	No	Yes	Don't Know
Apply wound dressing such as polyurethane based hydrogel, hydrocolloid, or hydrocellular foam	No	Yes	Don't Know
Use adhesives such as glues, acrylates, bone cements, benzoin tincture such as 3M® Steri-Strip® for surgery, skin closure, bone repair, ostomy bags, and other applications	No	 □Yes	Don't Know
Use adhesive removing solvents such as alcohols, acetone with wipes, gauze or swabs	No	Yes	Don't Know
Apply synthetic fiberglass casts	No	Yes	Don't Know

Please indicate how many days per week, times per day, duration of task, and the type of gloves used.

	<u>Days per</u>	<u>Times per</u>	Duration of	<u>Gloves Worn</u>
Tasks and Chemical	week	<u>day</u>	<u>Task</u>	
<< Piped in answer from 53.1>>	< <select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""></select></td></select></td></select></td></select>	< <select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""></select></td></select></td></select>	< <select from<="" td=""><td><<select from<="" td=""></select></td></select>	< <select from<="" td=""></select>
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Exposure to Aerosolized Medicines Used with Patients

54. Do you administer <u>aerosolized medications</u> that might include antibiotics such as Tobramycin, Amikacin, and Colistin, or other medications like pentamidine, ribavirin, bronchodilators, anesthetics, and antitrypsin?

No Yes

IF 'NO': GO TO QUESTION 55 IF 'YES': CONTINUE WITH QUESTION 54.1

54.1 Which tasks do you perform when you administer aerosolized medications?

Tasks	<u>Do y</u>	<u>ou perforr</u>	<u>n this task?</u>
Administer aerosolized medications with a small volume nebulizer (SVN)	No	Yes	Don't Know
Use continuous aerosol delivery system for bronchodilators and other medicines	No	Yes	Don't Know
Administer aerosolized medications with a metered-dose inhaler (MDI)	No	Yes	Don't Know
Administer aerosolized medications with a dry powder inhaler (DPI)	No	Yes	Don't Know

Please indicate how many days per week, times per week, duration of task, and the type of gloves used when you administer aerosolized medications.

Tasks and Tool Use	<u>Days per</u> <u>week</u>	<u>Times per</u> <u>day</u>	<u>Duration of Task</u> or Tool Use	<u>Gloves Worn</u>
<< Piped in answer from 54.1>>	< <select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""></select></td></select></td></select></td></select>	< <select from<="" td=""><td><<select from<="" td=""><td><<select from<="" td=""></select></td></select></td></select>	< <select from<="" td=""><td><<select from<="" td=""></select></td></select>	< <select from<="" td=""></select>
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54.2. What percent of the time do you use any respirator, other than a surgical mask, when administering aerosolized medication?

Never

About 25% of the time

About 50% of the

About 75% of the time

100% of the time

IF 'Never': CONTINUE WITH QUESTION 53 IF any other answers: GO TO QUESTION 52.2.1

54.2.1. Do you use the following types of respirators when administering aerosolized medication?

Particulate respirator such as an N95 Air purifying half mask Air purifying full face piece Powered air purifying

No Yes	Don
No Yes	Don
No Yes	Don
No Yes	Don

]Don't Know]Don't Know]Don't Know]Don't Know

Exposure to Chemicals used by Dental Assistants

Thinking about your current job and what you have done in this job in the last **12 months***:*

55. Have you worked as a dental assistant?

IF 'NO': GO TO QUESTION 56 IF 'YES': CONTINUE WITH QUESTION 55.1

55.1 Which tasks do you perform as a dental assistant?

	<u>Do y</u>	ou perfor	<u>m this task?</u>
Tasks		_	
Adjust, polish or repair dentures or use compunds such as methyl methacrylates, other acrylates, and epoxys	No	Yes	Don't Know
Prepare amalgams such as Vertex Soft [®] , Villacryl Soft [®] , Molloplast B [®] , and Mollosil [®]	No	Yes	Don't Know
Develop x-rays using film developing solutions	No	Yes	Don't Know
Use adhesives to place dentures or attach braces	No	Yes	Don't Know

<u>Please indicate how many days per week, times per day, duration of task, and the type of gloves used.</u>

Tasks	<u>Days per week</u>	<u>Times per day</u>	<u>Duration of</u> <u>Task</u>	<u>Gloves Worn</u>
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Yes

Employment 5 Years Ago

If you had more than one job 5 years ago, record information for job where you worked the most hours per week.

56. Please check the ONE box that best describes your employment status 5 years ago.

Employed in the healthcare industry

Employed outside of the healthcare industry

Disabled

On family leave

On extended sick leave

Retired

Student

Other, please specify: _____

IF YOU CHECKED "Employed in the healthcare industry" CONTINUE TO QUESTION 57. IF YOU CHECKED "Employed outside of the healthcare industry" CONTINUE TO QUESTION 56.1. OTHERWISE GO TO QUESTION 73

56.1. Please check the ONE box that best describes the type of industry your job was in 5 years ago. *If you had more than one job 5 years ago, record information for the job where you worked the most hours per week.*

Agriculture, forestry, and fishing
Construction trades
Health care and social assistance
Manufacturing
Mining
Oil and gas extraction
Public safety
Services, such as finance, real estate, education, hospitality, repair, or human resources
Transportation, warehousing, and utilities
Wholesale and retail trade
Other, please specify:

56.2. Please write in the title for the job you had 5 years ago.

56.3. What did you do at the job you had 5 years ago? _____

56.4. What was the name of the company where you worked 5 years ago? ______

Healthcare Employment 5 Years Ago

If you had more than one healthcare job 5 years ago, record information for job where you worked the most hours per week.

57. What was your occupation 5 years ago?

- Dental assistant
- Environmental service worker, housekeeper, or cleaner
- Lab technician, lab technologist, or assistant in a medical or clinical laboratory
- Licensed practical nurse (LPN) or licensed vocational nurse (LVN)
- Medical instrument preparers, central supply worker or endoscopy technician

Nursing assistant, nurse technician, nurse support assistant, patient care technician, patient support or orderly

Operating room technician

- Registered nurse (RN)
- Respiratory therapist or respiratory technician
- Other, please specify _____

58. In what type of facility did you work 5 years ago?

- 🗌 Hospital
- Nursing home
- Both hospital and nursing home
- Other, please specify _____

59. Where did you work in the facility 5 years ago?

- Patient care ward
- Administration
- Central supply

Dental
Dialysis
Ear, nose, and throat (ENT)
Education
Emergency room (ER)
Endoscopy
Float or multiple locations
General or internal medicine
Intensive care
Labor and delivery
Laboratory, medical or clinical
Non-patient care area
Outpatient care
Pediatric
Psychiatric
Pulmonary
Surgery or operating room
Other location, please specify

Thinking about the job you had 5 years ago.

60. Did you sterilize or high-level disinfect medical instruments, including dental instruments and ventilator parts, in central supply or other locations such as endoscopy and bronchoscopy units, hemodialysis units, operating rooms, or other clinical settings?	No Yes Don't Know
61. Did you clean or disinfect fixed surfaces, equipment, or instruments?	No Yes Don't Know
Examples of fixed surfaces are: countertops, floors, beds, and bathrooms. Examples of equipment are: IV poles, monitors, carts, and computers. Examples of instruments are: blood pressure cuffs, and stethoscopes.	
62. Did you clean and wax floors using strippers and buffers?	No Yes Don't Know
63. Did you work in a medical or clinical laboratory?	☐ No ☐Yes ☐Don't Know
64. Did you <u>use chemicals, adhesives, antiseptics, alcohols, or solvents,</u> such as solutions to remove adhesives, iodine, hydrogen peroxide, super glue, bone cement, alcohols, alcohol preps, mineral spirits, or toluene, <u>on patients</u> ?	No Yes Don't Know
65. Did you administer <u>aerosolized medications</u> that might include antibiotics such as Tobramycin, Amikacin, and Colistin, or other medications like pentamidine, ribavirin, bronchodilators, anesthetics, and antitrypsin?	No Yes Don't Know
66. Did you work as a dental assistant?	No Yes Don't Know

67. How many hours per week did you work in the job you had 5 years ago?	hours per week
68. What year did you begin that job?	
69. What year did you stop working in that job?	
70. Were you regularly exposed to vapors, gases, dust, or fumes in that job?	No Yes Don't Know
71. Thinking about the job you had 5 years ago, did you observe any of the following i Water leakage or water damage indoors on walls, floors, or ceilings Visible mold growth (not on food) indoors on walls, floors, or ceilings Odor of mold or mildew (not from food)	n the building where you worked? No Yes Don't Know No Yes Don't Know No Yes Don't Know
72. Thinking about the job you had 5 years ago, did you observe any renovations or construction in, or next to, the area(s) where you work?	No Yes Don't Know

Changing Jobs

73. Have you ever had to <u>change or leave a job or position because it affected</u> No Yes Don't Know <u>your breathing</u>? This would include changing jobs or positions within the same workplace.

IF 'NO': Go to Question 74 IF 'YES': Continue with Question 73.1

If this happened more than once, please answer the following questions about the most recent time you changed or left a job or position because it affected your breathing.

73.1. In which <u>year</u> did you change or leave this job or position?

73.2. What kind of job or position did you change or leave?

73.3. Please check the ONE box that best describes what industry the job or position you changed or left was in?

- _____Agriculture, forestry, and fishing
- Construction trades
- _____ Health care and social assistance
- ____ Manufacturing
- Mining
- ____Oil and gas extraction
- ____ Public safety

Services, such as finance, real estate, education, hospitality, repair, or human resources

- Transportation, warehousing, and utilities
- Wholesale and retail trade
- Other, please specify _____

73.4. What had you done in the job or position you changed or left?

73.5. What exposure or activity affected your breathing in the job or position you changed or left?

73.6. <u>Concerning the job</u> or position you went to: What kind of job or position did you go to?

73.7. Please check the ONE box that best describes what industry the job or position you went to was in?

Agriculture, forestry, and fishing
Construction trades
Health care and social assistance
Manufacturing
Mining
Oil and gas extraction
Public safety
Services, such as finance, real estate, education, hospitality, repair, or human resources
Transportation, warehousing, and utilities
Wholesale and retail trade
Other, *please specify* _______

73.8. What did you do in this new job or position?

73.9. What was the name of the company where you worked at this new job?

Demographics

74. In what year were you born?	
75. What is your sex?	Male Female
76. Do you consider yourself of Hispanic, Latino, or Spanish origin?	□ No □Yes
 77. What is your race? Mark one or more in the list below. American Indian or Alaska Native Asian Black or African American Native Hawaiian or Other Pacific islander White 	
 78. What is the highest grade or level of education that you have <u>completed</u>? Less than a high school diploma High school diploma or GED Some college, vocational, or technical education 4 year college graduate (bachelor's degree) Graduate or medical Other Pacific Islander, <i>please specify</i> 	

Smoking Status		
79. Have you smoked at least 100 cigarettes in your entire life? <u>IF 'No': Go to Question 80</u> <u>IF 'Yes': Go to Question 79.1</u>	🗌 No 🗌 Yes	Don't Know
79.1. How old were you when you first started to smoke cigarettes fairly regula	rly?	years old
79.2. Do you <u>now</u> smoke cigarettes, as of <u>one month ago</u> ?	No Yes	Don't Know
IF 'No': Go to Question 79.2.1 IF 'Yes': Go to Question 79.2.3		
<u>IF 'NO':</u>		
79.2.1. How old were you when you last smoked cigarettes?	-	years old

79.2.2. Before you stopped smoking, how many cigarettes did you usually smoke

per day? If less than 1 cigarette per day, enter 00

<u>IF 'YES':</u>

79.2.3. How many cigarettes do you usually smoke per day? <i>If less than 1 cigarette per day, enter 00</i>	cigarettes per day
80 On average, how many hours per week are you in close contact with people when	
they are smoking? For example, in your home, in a car, at work, or in other close	
quarters. (Enter 00 if you are not in close contact with people when they are smoking,	hours per week
or you are in close contact loss than 1 hour ner youl)	

or you are in close contact less than 1 hour per week.)