Form Approved OMB No. 0920-1011 Exp. Date 01/31/2020

CDC Case Questionnaire for E-cigarette Investigation SHORT FORM

August 27, 2019

Page 1

SEVERE PULMONARY DISEASE ASSOCIATED WITH E-CIGARETTE USE OUTBREAK CASE INTERVIEW SHORT FORM (CDC)

August 27, 2019

Page 1 of 16

Contents

Interview Form	a
INTERVIEW DETAILS	
TRACKING	
INTERVIEW ATTEMPT INFORMATION	
PATIENT DEMOGRAPHICS	3
ILLNESS HISTORY	4
JOB/SCHOOL	5
VAPING PRODUCTS	5
CHANGES IN VAPING BEHAVIORS	11
GENERAL SUBSTANCE USE	14
OTHER EXPOSURES	15
OTHER MEDICATIONS/SUPPLEMENTS	15
END INTERVIEW HERE	16

Interview Form

INTERVIEW DETAILS [TO BE COMPLETED BY PUBLIC HEALTH DEPARTMENT PERSONI	NEL PRIOR TO INTERVIEW]
Patient or proxy (parent/guardian) interview?	o Yes o No
TRACKING [TO BE COMPLETED BY PUBLIC HEALTH DEPARTMENT PERSON	NEL PRIOR TO INTERVIEW]
CDC CASE ID (deidentified)	
INTERVIEW ATTEMPT INFORMATION [TO BE COMPLETED BY PUBLIC HEALTH DEPARTMENT PERSONI	NEL PRIOR TO INTERVIEW]
Patient refused interview or was lost to follow-up	o Yes o No

BEGIN INTERVIEW HERE

Suggested script: Please read the following script if you are able to reach the patient or a proxy for an interview:

I'm calling from the [jurisdiction] Health Department. I'm calling because you might be part of a group of people who have gotten sick after vaping.

Vaping includes the use of electronic devices that can vaporize a combination of nicotine, flavors, and/or other substances (e.g. marijuana, THC, THC concentrates, CBD, synthetic cannabinoids) for inhalation. Examples of these devices include electronic cigarettes or e-cigarettes, such as JUUL, SMOK, Suorin, Vuse, or blu. You also may know them as vapes, mods, e-cigs, e-hookahs, vape-pens, or some other electronic vapor product.

Most people who have gotten sick have been hospitalized overnight with several ending up in the intensive care unit. We are working with hospitals, doctors and other health departments to try to understand what is causing this illness so that we can keep other people from getting sick. We heard about your illness from your health care provider. We would like to learn more about your symptoms and to understand if something you vaped might have made you sick. Do you have a few minutes to share your experience with this illness?

Your responses will help us better understand what may be causing illness.

PATIENT DEMOGRAPHICS	
Sex	o Male
Sex	o Female
	o Hispanic or Latino
How do you describe your ethnicity?	 Not Hispanic or Latino
	o White
How do you describe your race? (select all that apply)	Black or African American
	 American Indian or Alaska Native

	AsianNative Hawaiian or Other PacificIslander
Age (in years)	
ILLNESS HISTORY	
When did symptoms start (when did you first begin to feel ill)? Date: (DD/MM/YYYY) Time: (HH:MM AM/PM) if available	
What symptoms have you experienced since first becoming ill (select all that apply)?	
Shortness of breath	YesNoUnknown
Chest pain	YesNoUnknown
Pain on breathing in	YesNoUnknown
Fever	YesNoUnknown
Cough	o Yes o No o Unknown
Headache	o Yes o No o Unknown
Nausea	o Yes o No o Unknown
Vomiting	YesNoUnknown
Diarrhea or loose stools	YesNoUnknown
Abdominal pain	o Yes o No

	o Unknown
Other symptoms (open-ended)?	YesNoUnknown
[IF YES] Please list other symptom(s)	
Which symptom began first?	
Do you have any thoughts about why you may have become ill?	
Do you have any underlying medical conditions [prompt: asthma, COPD or other lung condition, heart disease]?	o Yes o No
[IF YES] Please list	
JOB/SCHOOL	
Do you have a job?	o Yes o No
[IF YES] What is your occupation or job function?	
Have you ever worked in a job in which you were regularly	o Yes
exposed to any of the following: coal, beryllium, silica,	o No
asbestos, or pesticides?	o Unsure
[IF YES] Specify	
VARING PRODUCTS	

VAPING PRODUCTS

The next several questions are about vaping or e-cigarette use, such as JUUL, SMOK, Suorin, Vuse, or blu. You also may know them as vapes, vaporizers, mods, e-cigs, e-hookahs, dab pens, rigs, vape-pens, or electronic nicotine delivery systems (ENDS).

Please consider the vaping of any substance (e.g., nicotine, marijuana, CBD, synthetic cannabinoids, flavors or other substances).

[Repeat questions as necessary for each product/device or substance used in the past 3 months before symptoms began.]

Did you vape or use e-cigarettes in the past 3 months before symptoms began [Y/N]?

IF YES:

What type of device(s) did you use within the past 3 months before symptoms started (select all that apply)?

- Disposable e-cigarette or vape [Y/N]
- E-cigarette or vape with pods or cartridges [Y/N]
- E-cigarette or vape with a tank that you refill with liquids (including mod or modifiable systems) [Y/N]
- Vaporizer [Y/N]
- Sub-ohm devices [Y/N]
- Other (specify):

	 Don't know 		
	What substances did you use within the	past 3 months befor	re symptoms started (select all that
	 apply)? nicotine [Y/N] [IF YES] Strength [IF YES] free-base [IF YES] nicotine Marijuana, THC, THC condense [Y/N] Synthetic cannabinoids CBD or CBD oil [Y/N] flavors [Y/N] something else (specify) Don't know 	se nicotine? [Y/N] e salts? [Y/N] ncentrates, hash oil, (e.g., K2 or Spice) [Y/	
	r each substance that you used in the 3 mont fore symptoms started?	ths before symptoms	s started, when was the date of last use
		Date of last use (MM/DD/YYYY)	
	Nicotine (free-base or nicotine salts) Check if not used: []	, = = , ,	
	Marijuana, THC, THC concentrates (e.g., dabs, dab wax, dab cards), hash oil, wax Check if not used: []		
	Dank vapes Check if not used: []		
	Synthetic cannabinoids (e.g., K2 or Spice) Check if not used: []		
	CBD or CBD oil Check if not used: []		
	Flavors Check if not used: [] Something else Check if not used: []		
	What brand(s) did you use within the pa possible for each product currently used What flavor(s) did you use within the pa possible for each product currently used	d ast 3 months before s d	ymptoms started? Be as specific as
٦a	ve you dabbed within the past 3 months befo	ore symptom onset? [[1/N]

	[IF YES fo	or dabbin	g] What do	you dab?: _				
	[IF YES fo	or dabbin	g] How do y	ou dab?:				
-	ı use pre-filled car	tridges o	r pods of va	ping liquid v	within the past	: 3 months before	symptoms st	arted?
	[Y/N] [IF YES]: Describe pre-filled cartridge (Brand, Type): [IF YES]: What substance(s) are contained in these pre-filled cartridges or pods? • nicotine [Y/N] • [IF YES] free-base nicotine? [Y/N] • [IF YES] nicotine salts? [Y/N] • Marijuana, THC, THC concentrates, hash oil, wax [Y/N] • Dank vapes [Y/N] • Synthetic cannabinoids (e.g., K2 or Spice) [Y/N] • CBD or CBD oil [Y/N] • flavors [Y/N] • something else (specify): [IF YES]: Have you ever added any substance to a prefilled cartridge? [Y/N] [IF YES]: What have you added to your cartridge?:							
	B months before s ge in any way [Y/N [IF YES] Please	1]?		l you ever h	acked or modi	fied your vaping o	device or liqui	d
In the 3 [Y/N]?	B months before s [IF YES]:					or vaping liquid to and, substance use		evice
In the 3 [Y/N]?	3 months before s				or mix your ov	vn e-liquid, e-juice	e, or vaping lic	ղuid
	th substance that ostance?	you vape	d in the 3 m	nonths befo	ore symptoms	started , how freq	uently did yo	u use
		Never	Monthly or less	2-4 times per month	2-3 times per week	4-6 times per week	Daily	
nicotii Check Mariju conce dabs,	ne (free-base or ne salts) if not used: [] uana, THC, THC ntrates (e.g., dab wax, dab							

Check if not used: []			
Dank vapes			
Check if not used: []			
Synthetic			
cannabinoids (e.g., K2			
or Spice)			
Check if not used: []			
CBD or CBD oil			
Check if not used: []			
Flavors			
Check if not used: []			
Something else (if so,			
specify):			
Check if not used: []			

Please answer the following for each substance that you used in the 3 months before symptoms started. How did you get or buy this product or substance? Please specify:

Substance	Where purchased or obtained (please select all that apply) Specify details including: location, person, actual item purchased or obtained, etc.	Date of last purchase prior to symptom onset? (MM/DD/YYYY)
Nicotine (free-base or nicotine salts) Check if not used: []	 Bought it at a vape shop or dispensary [IF YES] specify details:	
Marijuana, THC, THC concentrates (e.g., dabs, dab wax, dab cards), hash oil, wax Check if not used: []	 Bought it at a vape shop or dispensary [IF YES] specify details: Bought it at a different type of store (such as a convenience store, gas station, supermarket) [IF YES] specify details: Bought it at a pop-up shop [IF YES] specify details: 	

	 Bought it from another person [IF YES] specify details: Bought it online [IF YES] specify details: It was given to me by another person [IF YES] specify details: Other (specify details):
Dank vapes Check if not used: []	 Bought it at a vape shop or dispensary [IF YES] specify details:
Synthetic cannabinoids (e.g., K2 or Spice) Check if not used: []	 Bought it at a vape shop or dispensary [IF YES] specify details:
CBD or CBD oil Check if not used: []	Bought it at a vape shop or dispensary [IF YES] specify details:

	 Bought it at a different type of store (such as a convenience store, gas station, supermarket) [IF YES] specify details: Bought it at a pop-up shop [IF YES] specify details: Bought it from another person [IF YES] specify details: Bought it online [IF YES] specify details: It was given to me by another person [IF YES] specify details: Other (specify details): Other (specify details): 	
Flavors Check if not used: []	 Bought it at a vape shop or dispensary [IF YES] specify details: Bought it at a different type of store (such as a convenience store, gas station, supermarket) [IF YES] specify details: Bought it at a pop-up shop [IF YES] specify details: Bought it from another person [IF YES] specify details: Bought it online [IF YES] specify details: It was given to me by another person [IF YES] specify details: Other (specify details): 	
Something else (please specify if relevant): Check if not used: []	 Bought it at a vape shop or dispensary [IF YES] specify details: Bought it at a different type of store (such as a convenience store, gas station, supermarket) [IF YES] specify details: Bought it at a pop-up shop [IF YES] specify details: Bought it from another person [IF YES] specify details: Bought it online [IF YES] specify details: It was given to me by another person [IF YES] specify details: 	

Other (specify de	tails):			
Subsection: modifiable devices ("Mods"): Now I am going to ask you about each of the vaping the 3 months before symptoms started. [Repeat as necessary for each mod device used in the	-		·	em in
Is the device modifiable ("mods")? [Y/N]		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
E.G.: A device where you can modify voltage	o whether			
the user is adding additional equipment suc	-			
atomizer for "dripping;" and/or if the user is				
tampering with the device to change setting				
exposing heating coils to "drip" liquids direc				
heating device and get a bigger cloud of aer	osol, etc.)			
IF YES:				
What brand/type of coils did you use?				
What brand/type of atomizer did you use?				
Did you notice a build-up on the coil when using it?				
What brand/type of wicks did you use?				
In the past 3 months before symptoms started, have	— e you			
cleaned your mod device? [Y/N]				
[IF YES] what do you use to clean your mod	device?			
Do you use for device for dripping? [Y/N]				
CHANGES IN VAPING BEHAVIORS				
In the last 3 months before symptoms started, did y	ou change w	here you pur	chased or got your product	(s)?
Please answer for each product used.	Changes in		If was substances the	
	[Y/N]	purchase?	If yes, what were the changes? (specify)	
Device Used (overall)	[1/N]		changes: (specify)	
Device Osed (overall)				
e-liquid, e-juice, or liquid product used (overall)				
Check if not used: []				
Nicotine (free-base or nicotine salts)				
Check if not used: []				
Marijuana, THC, THC concentrates (e.g., dabs,				
dab wax, dab cards), hash oil, wax				
Check if not used: []				
Dank vapes				
Check if not used: []				
Synthetic cannabinoids (e.g., K2 or Spice)				
Check if not used: []	<u> </u>			
CBD or CBD oil				
Check if not used: []				

Flavors (list and complete for all):		
Check if not used: []		
Something else (specify if relevant):		
Check if not used: []		
<u>n the last 3 months before symptoms started</u> , did hat you used? Please answer for each device or su		ice, liquid product, or dev
Device/Substance	Changes in type used? [Y/N]	If yes, what were the changes? (specify)
Device Used (overall)	177.43	criaingeer (epeciny)
e-liquid, e-juice, or liquid product used (overall)		
Check if not used: []		
Nicotine (free-base or nicotine salts)		
Check if not used: []		
Marijuana, THC, THC concentrates (e.g., dabs,		
dab wax, dab cards), hash oil, wax		
Check if not used: []		
Dank vapes		
Check if not used: []		
Synthetic cannabinoids (e.g., K2 or Spice)		
Check if not used: []		
CBD or CBD oil		
Check if not used: []		
Flavors (list and complete for all):		
Check if not used: []		
Something else (specify if relevant):		
Check if not used: []		
n the last 3 months before symptoms started, did	you notice any changes in ta	ste, texture, smell, clarity
quality of the product(s)? Please answer for each s	ubstance used.	
Substance	Notice changes in taste,	If Yes: describe the
	texture, smell, clarity, or	change(s)?
	quality of the product [Y/N]?	
Nicotine (free-base or nicotine salts)	F.11.	
	[17.1]	
Check if not used: []	E-77-12-	
Marijuana, THC, THC concentrates (e.g., dabs,		
Marijuana, THC, THC concentrates (e.g., dabs, dab wax, dab cards), hash oil, wax		
Marijuana, THC, THC concentrates (e.g., dabs,		

Synthetic cannabinoids (e.g., K2 or Spice)					
Check if not used: []					
CBD or CBD oil					
Check if not used: []					
Flavors (list and complete for all):					
riavors (not and complete for any)					
Charles and the latest and the lates	-				
Check if not used: []					
Something else (specify if relevant):					
Check if not used: []					
In the last 3 months before symptoms started, did	you notice an	y chan	ges in ho	w you feel after using the	
product e.g., cough, trouble breathing, dizziness, co	onfusion, the	buzz oı	high fro	m use, or any other physical	
changes in symptoms or experiences)? Please answ					
	Changes in			If yes, what were the	
	after using	-		changes? (specify)	
Device Used (overall)		, [· / · ·		changes (specify	
Device oscu (overan)					
a liquid a juice or liquid product used (averall)					
e-liquid, e-juice, or liquid product used (overall)					
Check if not used: []					
Nicotine (free-base or nicotine salts)					
Check if not used: []					
Marijuana, THC, THC concentrates (e.g., dabs,					
dab wax, dab cards), hash oil, wax					
Check if not used: []					
Dank vapes					
Check if not used: []					
Synthetic cannabinoids (e.g., K2 or Spice)					
Check if not used: []					
CBD or CBD oil					
Check if not used: []					
Flavors					
Check if not used: []					
Something else (if so, specify):					
Check if not used: []					
PRODUCT TESTING SECTION (ELECTRONIC PRODU	CIS ONLY):				
Do you have any device(s), substance(s), product(s)). or	0	Yes		
product packaging left for any of the substances or		0	No		
you used in the last 90 days (3 months)?	products		Unkno	wn	
you used in the last 30 days (3 months):		0		VVII	
[IF YES] Can public health get it for tes	ting?	0	Yes		
		0	No		
Did you share your product(s) with anyone (e.g., fri	ends,	0	Yes		
family) in the 3 months before symptoms started?			No		

		0	Unknown		
[IF YES] Did that person(s) deve	lon similar	0	Yes		
illness?	iop siitiiai	0	No		
miless:		0	Unknown		
GENERAL SUBSTANCE USE					
		0	Cigarettes		
		0	Cigars (regular cigars, little cigars,		
		cigarillos)			
	0	, , ,			
		0	Pipe tobacco		
		0	Roll-your-own		
	0	Bidis			
Have you inhaled any of the following substan	ices in the past 3	0	F		
months (90 days) before symptoms started?		0	Non-vaped Cannabinoids (e.g.,		
			marijuana, hash, synthetic		
		_	cannabinoids (K2 or Spice))		
		0	Heroin		
		0	Cocaine		
		0	Methamphetamine Huffing (e.g., paint, glue, bath salts)		
		0	Something else		
Non-vaped Cannabinoids (e.g., marijuana, ha	sh synthetic cann	<u> </u>			
IF YES TO USE IN PAST 3 MONTHS BEFORE SYMPTOMS STARTED: Approx. date last used (MM/DD/YYYY) What type of cannabinoids did you use (select all that apply)? • Marijuana, hash [Y/N] • Synthetic cannabinoids (e.g., K2 or Spice) [Y/N] • Dabbed marijuana (e.g., oils or waxes) [Y/N] • Dabbed CBD concentrate [Y/N] What brand(s) did you use (within the past 3 months before symptoms started)?: For each substance that you smoked or dabbed, how frequently did you use this substance in the 3 months before symptoms started?					
	Non-daily		Daily		
Marijuana, hash					
Check if not used: []					
Synthetic cannabinoids (e.g., K2 or Spice)					
Check if not used: []					
Dabbed marijuana (e.g., oils or waxes)					
Check if not used: []					

Dabbed CBD concentrate Check if not used: []			
OTHER EXPOSURES			
For the <u>last 6 months before symptoms started</u> been exposed to any of the following?	ed, have you		
Moldy hay, grain, cheese, or wood bark?		0 0 0	Yes No Unknown
Animal droppings or urine?		0 0 0	Yes No Unknown
Birds in your home, as part of a hobby, or	at work?	0 0 0	Yes No Unknown
Humidifiers, hot tubs, or saunas?		0 0 0	Yes No Unknown
Soil or compost (e.g., frequent handling of	f soil)?	0 0	Yes No Unknown
Spray paints or polyurethane foam?		0 0	Yes No Unknown
Did you spend time in an infrequently used structure (e.g., attic, cabin)?	d space or	0 0	Yes No Unknown
Did you inhale chemicals or toxins (e.g., cleoccupational exposures)?	eaning products,	0 0 0	Yes No Unknown
OTHER MEDICATIONS/SUPPLEMENTS (ask a	bout frequency of b	eing ta	ken in the last three months)
Over the counter medications [list all] Prescription medications [list all] (clarify if the prescription medications that were not prescription for administration (oral, inhaled,	ribed to them).		
Did you take any prescription medications the prescribed to you? [IF YES] Which?		0	Yes No
Vitamins and supplements, including things the purchased online [list all] OTHER NOTES (include details of any conversal)	·		
or guardian)	ation with parent	=	

FND	INTERV	/IF\M/	HERE
LIND			TILIXL

Form Approved OMB # 0920-1011 Exp. 01/31/2020

CDC Specimen Manifest Form for E-cigarette Investigation August 27, 2019 Page 1

SEVERE PULMONARY DISEASE ASSOCIATED WITH E-CIGARETTE USE OUTBREAK

SPECIMEN MANIFEST FORM (CDC)

August 27, 2019

CDC estimates the average public reporting burden for this collection of information as 10 minutes per response, including the time for reviewing instructions, searching existing data/information sources, gathering and maintaining the data/information 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 Information Collection Review Office, 1600 Clifton Road NE, MS D-74, Atlanta, Georgia 30333; ATTN: PRA (0920-1011).

Specimen Manifest Form

CDC Case	State Case	Sample	Matrix	Shipping	Position in	Volume	Collection	Comments about Specimen
ID	ID	ID	(specimen	Box # or ID	Shipping	(mL) of	Date of	
			type)		Box	Specimen	Specimen	