

Updated Guidance for Evaluating and Caring for Patients with Suspected E-cigarette, or Vaping, Product Use Associated Lung Injury

Summary and Action Items

- CDC has released "<u>Update</u>: <u>Interim Guidance for Health Care Providers Evaluating and Caring for Patients</u> with <u>Suspected E-cigarette</u>, or <u>Vaping</u>, <u>Product Use Associated Lung Injury – United States</u>, <u>October 2019</u>"
- The Tennessee Department of Health (TDH) is requesting that health care providers treating patients with suspected serious respiratory illness, and who vape, continue to report potential cases to public health as soon as possible.
- TDH will continue to coordinate testing of vaping devices and products with FDA.
- TDH can now also coordinate clinical specimen testing with CDC.

Background

There have been 57 cases of vaping associated pulmonary illness in Tennessee, ranging in age from 16 to 56 years. There have been two deaths confirmed. Additional cases are under investigation.

Potential Exposures

Patients have reported vaping in the weeks to months prior to illness. An investigation is ongoing to determine if there is a specific component or brand of vaping liquid that may be causing this problem, or if there are any other common exposures. Products used by cases may contain THC, CBD, nicotine, flavors and other chemicals.

Clinical Guidance

- CDC has released "<u>Update</u>: <u>Interim Guidance for Health Care Providers Evaluating and Caring for Patients with Suspected E-cigarette</u>, or Vaping, Product Use Associated Lung Injury United States, October 2019"
- PowerPoint slides available here: https://emergency.cdc.gov/coca/calls/2019/callinfo 101719.asp

Public Health Response

- TDH will continue to conduct investigations among cases to look for any common exposures and to collect information on products potentially linked to the illnesses.
- With consent of patients, TDH is coordinating testing of vaping devices and e-liquid products with FDA.
- TDH will also coordinate testing of clinical samples with CDC.
 - Complete Laboratory Clinical Sample Collection, Storage, and Submission Guidance is available here: https://www.cdc.gov/tobacco/basic_information/e-cigarettes/pdfs/Lab-Clinical-Specimen-Collection-Storage-Guidance-Lung-Injury-508.pdf
 - o Testing is available for Bronchoalveolar lavage fluid (BAL) (2 mL 7mL), with or without accompanying blood and urine samples.
 - When reporting a suspect case to TDH, note whether or not a BAL specimen is available for testing and additional collection and shipping guidance will be provided.

Reporting a Suspect Case

- There are multiple ways to report a suspect case to TDH for further investigation:
 - o Fill out the "<u>Vaping Reporting Form for Providers v2.0</u>" (also attached to this TNHAN) and either email to <u>vaping.illness@tn.gov</u> or fax to 615.741.3857 ATTN: Vaping.
 - o Email Tennessee Department of Health at vaping.illness@tn.gov to report a suspect case. In your email, please include 1) patient's home county, 2) brief clinical description 3) reporting provider's name, email address, telephone number and 4) whether or not a BAL specimen is available for additional laboratory testing. A TDH staff member will follow-up by phone to complete the investigation with the provider.
 - Contact your <u>regional or metropolitan health department.</u>

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IS THIS A CASE I NEED TO REPORT TO PUBLIC HEALTH?

Please	confirm o	answers to these three questions before proc	ceeding.					
1.	Does the patient have a history of vaping in the 90 days before onset of illness?				\square Yes (If "no", not a case)			
2.	Is there	e evidence of pulmonary infiltrates (opacities g?	\square Yes (If "no"	☐ Yes (If "no", not a case)				
3.		e any evidence that the disease is due to an a c, rheumatologic or neoplastic processes?)	☐ No (If "yes", not a case)					
DEMO	GRAPHI	ICS						
•	Patient Last Name			Patient First Name				
•	Patient	: Sex	Patien	Patient DOB				
•	Patient	Patient Address						
•	Patient	Patient City Patient ZIP						
		t County						
•								
		ent deceased?)	☐ No				
REPOR	<u>RTING</u>							
•	Provide	er Name						
•	Provide	er Email						
		Please provide a spo	ecific phone number fo	or public health staff to	conduct follow-up with rep	porting provider		
<u>INITIA</u>	L CLINIC	AL INFORMATION						
•	When	did respiratory symptoms begin? (If before J	uly 1, 2019, not pa	art of this investiga	ntion)/_	/		
•	Imaging:							
	.	Chest Radiograph performed?	☐ Yes	□ No				
	0	Chest CT performed?	☐ Yes	□ No				
	0	Location of abnormal findings?	☐ Bilateral	☐ Right	☐ Left ☐ Norma	(no findings)		
	0	Sub-pleural sparing on CT?	☐ Yes	□ No	☐ Unknown			
	Comments about imaging or other abnormal findings:							
•	Ruling	out infectious causes:						
	0	Respiratory viral panel:	\square Any Positive	\square All Negative	\square Not Done	\square Pending		
	0	Please describe any positive results: Influenza:						
	0	PCR test:	□Positive	□Negative	□Not Done	□Pending		
		Rapid flu test:	☐ Positive	☐ Negative	□ Not Done	□ Pending		
	0	Blood cultures:	□Positive	□Negative	\square Not Done	□Pending		
		If positive, specify organisms:		<u>-</u>		_		
	0	Legionella urinary antigen:	☐ Positive	□Negative	□ Not Done	☐ Pending		
	0	Strep pneumoniae urinary antigen: Mycoplasma pneumoniae:	☐ Positive ☐ Positive	□ Negative □ Negative	□Not Done □Not Done	☐ Pending ☐ Pending		
	0	Please describe any other infectious disease		_		□1 chang		
	O	Trease describe any other infectious diseas	se tests periorme	a ana then results.				
	0	If positive for <i>any</i> infectious agents, does respiratory disease process? Comments:	· ·		agent is the sole caus sitive infectious agen			

Date first reported ____/___/____

For TDH Use Only: REDCap ID_____

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CLINICAL LABORATORY FINDINGS

 Bronchoalveolar lavage performed? 	☐ Yes, date of sample		□ No
If yes, lipid staining?	☐ Yes	□ No	
o If yes, lipid-laden macrophages seen?	☐ Yes	□No	
 Lung biopsy performed? 	☐ Yes, date of sample		□ No
If yes, lipid staining?	☐ Yes	No	
 If yes, lipid-laden macrophages seen? 	☐ Yes	No	
 If yes, findings consistent with acute lung injury? 	☐ Yes	No If no, speci	ify findings
 If yes, other significant findings: 			
desired. If a BAL has already been performed and at least 2 metering, please provide contact information to coordinate specification. Use contact information provided above for reporting posture. Use contact information for person below to coordinate.	ecimen collect rovider to coo	tion and shipping rdinate specimen co	ollection and shipping
Name			
Phone Number			
Email Address			
$\hfill \square$ Non-applicable (BAL not performed/not enough fluid re	maining/not ir	nterested in additior	nal testing)

For TDH Use Only: REDCap ID______ Date first reported _____/____