

Outbreak of severe pulmonary illness associated with vaping:  
Updated information for clinicians and public health and instructions for reporting cases  
9/11/2019

Reporting patients

**Clinicians should report all patients with severe lung disease of uncertain etiology and associated with vaping. The reporting form with instructions for report submission to the appropriate public health agency in Michigan is below. The reporting form is also posted at [www.michigan.gov/cdinfo](http://www.michigan.gov/cdinfo).**

Recommendations

**The CDC, American Medical Association, and American Lung Association urged the public to stop using e-cigarette products until researchers discover what is causing the increase in associated lung illnesses and deaths.**

Update on the outbreak

As of September 6, 2019, CDC had received reports of 450 possible cases, including 6 deaths, of severe pulmonary illness associated with vaping from 33 states. As of September 11, the Michigan Department of Health and Human Services has identified 6 cases and is investigating an additional 10 possible cases reported in the past week.

- The CDC has not identified evidence of infectious disease; therefore, lung illnesses are likely associated with a chemical exposure. The FDA is analyzing vaping devices and liquids used by some reported patients, and CDC is actively working with states to collect de-identified data for epidemiologic analysis.
- On September 6, 2019, articles on the outbreak were published. The diagnosis of six cases reported from Utah (Maddock et al., 2019) and five cases from North Carolina (Davidson et al., 2019) was lipoid pneumonia. All these patients had vaped cannabinoid products.
- In addition, the New England Journal of Medicine published a report of 53 cases from Illinois and Wisconsin (Layden et al. 2019). The authors reported that 84% of the cases had vaped tetrahydrocannabinoid (THC) products, 17% reported use of nicotine-based products only, and 44% reported using both.
- Interim guidance for clinicians, public health officials, and the public from CDC was published September 6, 2019 in MMWR. (Shier J et al.)
- The most current information from CDC about the outbreak, including recommendations for clinicians and the public, is at [https://www.cdc.gov/tobacco/basic\\_information/e-cigarettes/severe-lung-disease.html](https://www.cdc.gov/tobacco/basic_information/e-cigarettes/severe-lung-disease.html).

References:

Davidson K, Brancato A, Heetderks P, Mansour W, Matheis E, Myra Nario M, Rajagopalan S, Underhill B, Winger J, Fox D. Outbreak of Electronic-Cigarette–Associated Acute Lipoid Pneumonia — North Carolina, July–August 2019. MMWR Morb Mortal Wkly Rep 2019;68(36).

Maddock SD, Cirulis MM, Callahan SJ, Keenan LM, Pirozzi CS, Raman SM, Aberegg SK. Pulmonary Lipid-Laden Macrophages and Vaping. N Engl J Med 2019 Sep 6. doi: 10.1056/NEJMc1912038. [Epub ahead of print]

Layden J, Ghinai I, Pray I et al. Pulmonary Illness Related to E-Cigarette Use in Illinois and Wisconsin - Preliminary Report. N Engl J Med. 2019 DOI: 10.1056/NEJMoa1911614. [Epub ahead of print]

Shier JG et al. Severe pulmonary disease associated with electronic-cigarette-product use – Interim guidance. MMWR Morb Mort Wkly Rep. 2019 September 6;68.

**Severe Pulmonary Disease Associated with E-cigarette/Vaping Use:  
Public Health Reporting Instructions and Form**

*The following information on your patient with severe pulmonary disease of unclear etiology and history of e-cigarette/vaping within the last 90 days should be reported to public health.\**

Reports can be submitted in one of three ways:

- 1) By calling your Local Health Department (see [www.malph.org](http://www.malph.org) for directory)
- 2) By providing this completed reporting form to your hospital's Infection Preventionist, who will make sure it gets to the right Local Health Department, or
- 3) By faxing this completed reporting form to 517-335-8509.

*\*\* Public health staff will use this information to request medical records for review and to contact patients to collect additional information.*

<b>Clinician Reporting Form:</b>			
Patients with Severe Pulmonary Disease associated with E-cigarettes/Vaping			
Patient name:			
Patient address:			
Patient date of birth: (if not known, age in years)			
Patient gender:	<input type="checkbox"/> Male	<input type="checkbox"/> Female	Other:
Was patient hospitalized?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
If yes, name of hospital and admission date	Hospital name:		
	Admission date:		
Was patient treated in ED?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
If yes, name of hospital and encounter date	ED name:		
Was patient treated by you as an outpatient?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
If yes, data of first encounter	Encounter date:		
Name, phone and email of reporting provider.	Name:		
	Phone number:	Email:	

\* This is a reportable condition under Administrative Rules R 325.71-75. Reporting of patients with this condition falls under the HIPAA public health exception [section 1264.512 (b)]; and disclosure by you or your hospital is exempt from "patient consent, authorization, or opportunity to agree or object."