**Severe Pulmonary Disease Associated with E-cigarette Use Outbreak**

**MEDICAL CHART ABSTRACTION SHORT FORM (CDC)**

August 27, 2019

**Medical Chart Abstraction Short Form – Selected Variables**

**Demographics**

Case number (de-identified):

Age:

Ethnicity

* Hispanic or Latino
* Not Hispanic or Latino

Race: (Select all that apply)

* White
* Black or African American
* Asian
* American Indian/Alaska Native
* Native Hawaiian or Other Pacific Islander

Sex

* Male
* Female

**History of Present Illness**

Admitted to hospital

* Yes
* No

Date of admission or initial evaluation (if not admitted):

Discharge diagnosis:

Date of initial symptom onset: \_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| Symptom at admission | Yes | No | Don’t Know or Not Documented |
| Shortness of breath |  |  |  |
| Difficulty breathing |  |  |  |
| Chest pain |  |  |  |
| Chest pain, pleuritic |  |  |  |
| Cough (any) |  |  |  |
| If yes (cough), productive? |  |  |  |
| Wheezing |  |  |  |
| Hemoptysis (coughing blood) |  |  |  |
| Nausea |  |  |  |
| Vomiting |  |  |  |
| Diarrhea |  |  |  |
| Abdominal pain |  |  |  |
| Unexpected weight loss over past 3 months (specify amount):\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |  |
| Subjective (i.e. reported) fevers |  |  |  |
| Chills/Rigors |  |  |  |
| Headache |  |  |  |
| Stiff neck |  |  |  |
| Sore throat |  |  |  |
| Runny nose |  |  |  |
| Sneezing |  |  |  |
| Nasal congestion |  |  |  |
| Muscle Aches/myalgia |  |  |  |
| Joint pain |  |  |  |
| Sweats |  |  |  |
| Rash |  |  |  |
| Red or draining eyes |  |  |  |

Other symptoms: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*If not admitted, symptoms at most recent evaluation

**Past medical history:**

Check all that apply:

* Asthma
* Emphysema/bronchitis (COPD)
* Bronchiectasis
* Hypersensitivity pneumonitis
* Cystic Fibrosis
* Other chronic lung disease, specify: \_\_\_\_\_\_\_\_\_\_\_\_\_
* Heart failure
* History of myocardial infarction (heart attack)
* Other cardiac diagnosis: \_\_\_\_\_\_\_\_\_\_
* HIV/AIDS
* Cancer, specify type \_\_\_\_\_\_\_\_\_\_\_\_
* Injection Drug Use
* Other, specify type \_\_\_\_\_\_\_\_\_\_\_

**Vital Signs**

Initial/first recorded temperature: \_\_\_\_\_\_\_\_\_ specify Fahrenheit/Celsius

Initial/first recorded heart rate:

Initial/first recorded respiratory rate:

Initial/first recorded systolic blood pressure:

Initial/first recorded diastolic blood pressure:

Initial/first recorded SpO2 on room air (pulse oximetry, %) :

**Substance Use History**

Tobacco Smoking Status (smoking of any combustible tobacco product, including cigarettes, cigars (regular cigars, little cigars, cigarillos), hookahs, roll-your-own cigarettes, pipes, and bidis)

* current smoker
* former smoker
* never smoker
* unknown

Vaping or e-cigarette use in past 90 days, includes using an electronic device (e.g., electronic nicotine delivery system (ENDS), electronic cigarette, e-cigarette, vaporizer, vape(s), vape pen, dab pen, or other) or dabbing to inhale substances (e.g., nicotine, marijuana, THC, THC concentrates, CBD, synthetic cannabinoids, flavorings, or other substances).

* current
* former
* never
* unknown

Substances vaped (check all that apply)

* Nicotine
* Marijuana, THC, THC concentrates, hash oil, wax
* Dank vapes
* Synthetic cannabinoids (e.g., K2 or Spice)
* CBD or CBD oil
* Flavors
* Other \_\_\_\_\_\_\_\_\_\_\_
* Not documented

Combustible Marijuana Smoking status (does not include vaping or dabbing, see above; only include use of smoked marijuana (e.g., joint, pipe, bong; sometimes called cannabis, pot, weed, hashish, grass))

* current
* former
* never
* unknown

Combustible Synthetic Cannabinoids Smoking status (does not include vaping or dabbing, see above; only include use of synthetic cannabinoids (e.g. K2, Spice))

* current
* former
* never
* unknown

Other substances inhaled:

* Cocaine (crack)
* Methamphetamine
* Heroin
* Huffing (paint, glue, bath salts)
* Other\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Selected laboratory testing:**

Admission sodium (Na):

Chloride (Cl):

Admission potassium (K):

Admission magnesium (Mg):

Admission blood urea nitrogen (BUN):

Admission creatinine:

Admission bicarbonate (CO2):

Admission Complete Blood Count:

White blood cells (WBC): \_\_\_\_\_\_\_\_\_\_\_\_

WBC differential

% Neutrophils:

% Lymphocytes:

% Eosinophils:

% Monocytes:

% Basophils:

Hemoglobin:

Hematocrit:

Platelets:

Highest ALT (U/L):

Highest AST (U/L):

Admission total bilirubin:

Admission C-reactive protein (CRP):

Admission arterial blood gas (ABG) prior to mechanical ventilation:

pH: \_\_\_\_\_

pO2: \_\_\_\_\_

pCO2: \_\_\_\_\_

bicarbonate (HCO3): \_\_\_\_\_\_

pulse oximetry O2 saturation (at the time of the ABG draw): \_\_\_\_\_\_

**Special laboratory testing**:

Indicate any positive laboratory tests for infectious, rheumatologic, hypersensitivity panel

(See long form medical abstraction form for detailed examples of these tests)

|  |  |  |
| --- | --- | --- |
| Test | Date of collection | Results |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Imaging, medical procedures, and treatment**:

Chest radiograph (x-ray) performed

□ Yes □ No □ Unknown

Initial chest radiograph (x-ray) findings:

Subsequent chest radiograph (x-ray) performed?

□ Yes □ No □ Unknown

Subsequent chest radiograph (x-ray) findings:

Chest CT (computed tomography) performed □ Yes □ No □ Unknown

Initial chest CT findings:

Bronchoscopy performed □ Yes □ No □ Unknown

Bronchoscopy findings:

Lung biopsy performed

□ Yes □ No □ Unknown

Lung biopsy findings:

Antimicrobials administered:

□ Yes □ No □ Unknown

Antimicrobials (e.g., antibiotics, antifungals, antivirals) administered. List all.

|  |
| --- |
| Antimicrobial name |
|  |
|  |
|  |
|  |
|  |

Documented clinical response to antimicrobials:

□ Improvement

□ No change

□ Worsening clinical status

□ Unknown/not documented

Steroids administered:

□ Yes □ No □ Unknown

|  |  |  |  |
| --- | --- | --- | --- |
| Steroid medication name | Route | Dose | Frequency |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Documented clinical response to steroids:

□ Improvement

□ No change

□ Worsening clinical status

□ Unknown/not documented

Required the following care:

Intensive care unit (ICU) admission □ Yes □ No □ Unknown

Ventilatory support with CPAP or BiPAP □ Yes □ No □ Unknown

Mechanical ventilation via endotracheal or tracheal intubation □ Yes □ No □ Unknown

Diagnosis of Acute Respiratory Distress Syndrome (ARDS) □ Yes □ No □ Unknown

Placed on extracorporeal membrane oxygenation (ECMO) □ Yes □ No □ Unknown

**Outcomes**

Died? □ Yes □ No □ Unknown

Date of death (MM/DD/YYYY): \_\_\_\_\_\_\_\_\_

Cause of death: \_\_\_\_\_\_\_\_\_\_\_\_

Autopsy performed? □ Yes □ No □ Unknown

Report available? □ Yes □ No □ Unknown

Autopsy findings: \_\_\_\_\_\_\_\_\_\_

**Case status**

* Confirmed
* Probable
* Not yet determined
* Not a case