

CDC EVALI v1-Manually limit to ages 11-34
Definition Factsheet & Technical Brief

Description: Updated on 10/27/21 to fix processing issue. This query is designed to identify records with diagnostic codes recommended by CDC for e-cigarette, or vaping, product use-associated lung injury (EVALI), whether or not the record mentions e-cigarette, or vaping, product use. It excludes infectious disease (e.g. upper respiratory infection, influenza, bacterial pneumonia, pertussis, Legionella), asthma, sickle cell disease, cystic fibrosis, suicide, dialysis, diabetes, epilepsy, pregnancy, cancers, vehicle crashes, firearm injuries, heat-related illness, opioid and stimulant use, and other potential etiologies. Because some of the CDC-recommended codes for these lung injuries, such as acute respiratory distress syndrome, are fairly broad, and the query does not require evidence of exposure to e-cigarette, or vaping, products, it will return some records that are not related to EVALI. The query is most specific when limited to younger age groups and patients who were not discharged home.

New or Revised Definition: New

Date Created in ESSENCE: October 27, 2021

Authored by the NSSP Community of Practice.

Table 1. Inclusion and exclusion terms.

Terms		Description
<i>Inclusion</i>		
International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM)		
J80		Acute respiratory distress syndrome
J69.1		Pneumonitis due to inhalation of oils and essences
J68.0		Bronchitis and pneumonitis due to chemicals, gases, fumes and vapors
J82		Pulmonary eosinophilia, not elsewhere classified
J84.114		Acute interstitial pneumonitis
J84.89		Other specified interstitial pulmonary diseases
J68.9		Unspecified respiratory condition due to chemicals, gases, fumes and vapors
<i>Exclusion</i>		
International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM)		
A00–B99 pattern except A/B two-digit .9 pattern		Certain infectious and parasitic diseases
O00–O99 / O9A		Pregnancy, childbirth and the puerperium
G00–G99		Diseases of the nervous system
C[0-9][0-9ab]		Malignant neoplasms
D[0-4][0-9a]		In situ neoplasms, benign neoplasms, and neoplasms of uncertain or unknown behavior
D55–D59		Diseases of blood and blood-forming organs and certain disorders involving the immune mechanism
S00–S99		Injury, poisoning and certain other consequences of external causes

Terms	Description
T10–T29	Injury, poisoning and certain other consequences of external causes
T30–T34	Burns and corrosions
L00–L99	Diseases of the skin and subcutaneous tissue
E84	Cystic fibrosis
N00–N99	Diseases of the genitourinary system
J15.9	Unspecified bacterial pneumonia
R78.81	Bacteremia
J09	Influenza due to certain identified influenza viruses
J10	Influenza due to other identified influenza virus
J11	Influenza due to unidentified influenza virus
J85.2	Abscess of lung without pneumonia
International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) – Exceptions to A/B Infection Code Exclusion	
[AB][0-9][0-9].9	Certain infectious and parasitic diseases, unspecified subcategory
International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM)	
487.0	Influenza with pneumonia
487.1	Influenza with other respiratory manifestations
487.8	Influenza with other manifestations
488.01	Influenza due to identified avian influenza virus with pneumonia
488.09	Influenza due to identified avian influenza virus with other manifestations
488.11	Influenza due to identified 2009 H1N1 influenza virus with pneumonia
488.19	Influenza due to identified 2009 H1N1 influenza virus with other manifestations
488.81	Influenza due to identified novel influenza A virus with pneumonia
488.89	Influenza due to identified novel influenza A virus with other manifestations
SNOMED Concepts	
442696006	Influenza caused by Influenza A virus subtype H1N1 (disorder)
442438000	Influenza caused by Influenza A virus (disorder)
6142004	Influenza (disorder)
195878008	Pneumonia and influenza (disorder)
Chief Complaint	
cold	
refill	

Terms	Description
mva	
status asthmaticus	
chronic lung	
epilepsy	
seizure	
diabetes	
hyperglycemic	
DKA	
chronic	
allergic	
allergy	
denies respiratory distress	
no respiratory distress	
no obvious respiratory distress	
influenza	
flu like	
bacterial pneumonia	
upper respiratory infection	
ear infec	
catheter line	
CCDD Category Free text – Exclusions	
Heroin	
Opioid	
Stimulant	
Asthma	
All traffic	
legionell	
Pertuss	
Heat Related	
Suicide	
Dialys	
Firearm	

Terms	Description
Diabetic	
Subsyndrome Free Text – Exclusions	
alteredmental	
Alcohol	
Chief Complaint Combo Free Text – Exclusions	
cold	
refill	
mva	
status asthmaticus	
asthma	
chronic lung	
epilepsy	
seizure	
denies	
diabetes	
hyperglycemic	
DKA	
chronic	
allergic	
influenza	
flu like	
bronchi	
Discharge Diagnosis Combo Free Text – Exclusions	
cold	
refill	
mva	
status asthmaticus	
asthma	
chronic lung	
epilepsy	
seizure	
denies	

Terms	Description
diabetes	
hyperglycemic	
DKA	
chronic	
allergic	
influenza	
J85.2	
J852	

Table 2. ESSENCE syntax.

Search CC and DD field, CCDD Category Freetext, SubSyndrome Free Text, Chief Complaint Combo Free Text, and Discharge Diagnosis Combo Free Text
CCDD: (,^[/ J80^,or,^[;/ J69.1^,or,^[;/ J691^,or,^[;/ J68.0^,or,^[;/ J680,or,^[;/ J82^,or,^[;/ J84.114,or,^[;/ J84114,or,^[;/ J84.89^,or,^[;/ J8489^,or,^[;/ J68.9^,or,^[;/ J689^),andnot,(^cold^,or,^refill^,or,^mva^,or,^status asthmaticus^,or,^chronic lung^,or,^epilepsy^,or,^seizure^,or,^diabetes^,or,^hyperglycemic^,or,^DKA^,or,^chronic^,or,^allergic^,or,^allergy^,or,^denies respiratory distress^,or,^no respiratory distress^,or,^no obvious respiratory distress^,or,^[;/][ab][0-9][0-9]^,ANDNOT,(,^[;/][AB][0-9][0-9].9^,or,^[;/][AB][0-9][0-9]9^),or,^[;/]O[0-9][0-9a]^,or,^[;/]G[0-9][0-9]^,or,^[;/]C[0-9][0-9ab]^,or,^[;/]D[0-4][0-9a]^,or,^[;/]D5[5-9]^,or,^[;/]S[0-9][0-9]^,or,^[;/]T[12][0-9]^,or,^[;/]T3[0-4]^,or,^[;/]L[0-9][0-9]^,or,^[;/]E84^,or,^N[0-9][0-9]^,or,^influenza^,or,^flu like^,or,^[;/]J15.9^,or,^[;/]J159^,or,^bacterial pneumonia^,or,^upper respiratory infection^,or,^ear infec^,or,^catheter line^,or,^[;/]R78.81^,or,^[;/]R7881^,or,^[;/]J09^,or,^[;/]J10^,or,^[;/]J11^,or,^[;/]487.[018];^,or,^[;/]487[018];^,or,^[;/]487.[018],or,^[;/]487[018],or,^[;/]488.[018][19];^,or,^[;/]488[018][19];^,or,^[;/]488.[018][19],or,^[;/]488[018][19],or,^442696006^,or,^442438000^,or,^6142004^,or,^195878008^,or,^[;/]J85.2^,or,^[;/]J852^,)
CCDD Category Freetext: ISNULL,or,^,ANDNOT,(^Heroin^,or,^Opioid^,or,^Stimulant^,or,^Asthma^,or,^All traffic^,or,^legionell^,or,^Pertuss^,or,^Heat Related^,or,^Suicide^,or,^Dialys^,or,^Firearm^,or,^Diabetic^,)
Subsyndrome Free Text: ISNULL,or,^,ANDNOT,(^alteredmental^,or,^Alcohol^,)
Chief Complaint Combo Free Text: ISNULL,or,^,ANDNOT,(^cold^,or,^refill^,or,^mva^,or,^status asthmaticus^,or,^asthma^,or,^chronic lung^,or,^epilepsy^,or,^seizure^,or,^denies^,or,^diabetes^,or,^hyperglycemic^,or,^DKA^,or,^chronic^,or,^allergic^,or,^influenza^,or,^flu like^,or,^bronchi^,)
Discharge Diagnosis Combo Free Text: ISNULL,or,^,ANDNOT,(^cold^,or,^refill^,or,^mva^,or,^status asthmaticus^,or,^asthma^,or,^chronic lung^,or,^epilepsy^,or,^seizure^,or,^denies^,or,^diabetes^,or,^hyperglycemic^,or,^DKA^,or,^chronic^,or,^allergic^,or,^influenza^,or,^J85.2^,or,^J852^,)