

Influenza-like Illness

Date

August 30, 2021

Definition

The patient may have an influenza-like illness.

Criteria Description

Patient care reports where:

- any symptom or impression is influenza-like illness
or
- any two distinct symptoms or impressions are influenza-like

Pseudocode

Patient care reports where:

eSituation.09 - Primary Symptom

eSituation.10 - Other Associated Symptoms

eSituation.11 - Provider's Primary Impression

eSituation.12 - Provider's Secondary Impressions

- B97.2* Coronavirus as the cause of diseases classified elsewhere
- J00 Acute nasopharyngitis [common cold]
- J09*–J18* Influenza and pneumonia
- J20*–J22* Other acute lower respiratory infections
- Z20.8* Contact with and (suspected) exposure to other communicable diseases
- Z20.9 Contact with and (suspected) exposure to unspecified communicable disease

OR

eSituation.09 - Primary Symptom
eSituation.10 - Other Associated Symptoms
eSituation.11 - Provider's Primary Impression
eSituation.12 - Provider's Secondary Impressions

Two or more distinct values of the following:

- J02* Acute pharyngitis
- J03* Acute tonsillitis
- J06 Acute upper respiratory infections of multiple and unspecified sites
- J80 Acute respiratory distress syndrome
- J98.9 Respiratory disorder, unspecified
- M79.1* Myalgia
- R05 Cough
- R06 Abnormalities of breathing
- R06.0* Dyspnea
- R06.8 Other abnormalities of breathing
- R06.89 Other abnormalities of breathing
- R06.9 Unspecified abnormalities of breathing
- R07.0 Pain in throat
- R09.81 Nasal congestion
- R50 Fever of other and unknown origin
- R50.8 Other specified fever
- R50.81 Fever presenting with conditions classified elsewhere
- R50.9 Fever, unspecified
- R51* Headache
- R53 Malaise and fatigue
- R53.1 Weakness
- R53.8 Other malaise and fatigue
- R53.81 Other malaise
- R53.83 Other fatigue
- R68.83 Chills (without fever)

XPath Code

/EMSDataset/Header/PatientCareReport

```
[
  eSituation/(eSituation.09, eSituation.10, eSituation.11, eSituation.12)
  [matches(., '^(B97\.2.*)|(J00.*)|(J09.*)|(J1[0-8].*)|(J2[0-2].*)|(Z20\.8.*)|
  (Z20\.9)$')]
or
count(distinct-values
  (eSituation/(eSituation.09, eSituation.10, eSituation.11, eSituation.12)
  [matches(., '(J02.*)|(J03.*)|(J06)|(J80)|(J98\.9)|(M79\.1.*)|(R05)|(R06)|
  (R06\.0.*)|(R06\.8)|(R06\.89)|(R06\.9)|(R07\.0)|(R09\.81)|(R50)|(R50\.8)|
  (R50\.81)|(R50\.9)|(R51.*)|(R53)|(R53\.1)|(R53\.8)|(R53\.81)|(R53\.83)|
  (R68\.83)'])])
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)) > 1
]

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SAS Code

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proc sql;
create table InfluenzaLikeIllnessKey as
select distinct pcrKey from
(
union
select pcrKey from nemsis.factPcrPrimarySymptom where prxmatch(
  '/^(B97\.2.*)|(J00.*)|(J09.*)|(J1[0-8].*)|(J2[0-2].*)|(Z20\.8.*)|
  (Z20\.9)$/', eSituation_09)
union
select pcrKey from nemsis.factPcrAdditionalSymptom where prxmatch(
  '/^(B97\.2.*)|(J00.*)|(J09.*)|(J1[0-8].*)|(J2[0-2].*)|(Z20\.8.*)|
  (Z20\.9)$/', eSituation_10)
select pcrKey from nemsis.factPcrPrimaryImpression where prxmatch(
  '/^(B97\.2.*)|(J00.*)|(J09.*)|(J1[0-8].*)|(J2[0-2].*)|(Z20\.8.*)|
  (Z20\.9)$/', eSituation_11)
union
select pcrKey from nemsis.factPcrSecondaryImpression where prxmatch(
  '/^(B97\.2.*)|(J00.*)|(J09.*)|(J1[0-8].*)|(J2[0-2].*)|(Z20\.8.*)|
  (Z20\.9)$/', eSituation_12)
union
select pcrKey from
(
select pcrKey, count(distinct diagnosis) as c from
(
select pcrKey, eSituation_09 as diagnosis
from Nemsis.factPcrPrimarySymptom where prxmatch('/^(J02.*)|
(J03.*)|(J06)|(J80)|(J98\.9)|(M79\.1.*)|(R05)|(R06)|(R06\.0.*)|
(R06\.8)|(R06\.89)|(R06\.9)|(R07\.0)|(R09\.81)|(R50)|(R50\.8)|
(R50\.81)|(R50\.9)|(R51.*)|(R53)|(R53\.1)|(R53\.8)|(R53\.81)|
(R53\.83)|(R68\.83)$/', eSituation_09)
union
select pcrKey, eSituation_10 as diagnosis
from Nemsis.factPcrAdditionalSymptom where prxmatch('/^(J02.*)|
(J03.*)|(J06)|(J80)|(J98\.9)|(M79\.1.*)|(R05)|(R06)|(R06\.0.*)|
(R06\.8)|(R06\.89)|(R06\.9)|(R07\.0)|(R09\.81)|(R50)|(R50\.8)|
(R50\.81)|(R50\.9)|(R51.*)|(R53)|(R53\.1)|(R53\.8)|(R53\.81)|
(R53\.83)|(R68\.83)$/', eSituation_10)
union
select pcrKey, eSituation_11 as diagnosis

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        from Nemsis.factPcrPrimaryImpression where prxmatch('/^(J02.*|
(J03.*)|(J06)|(J80)|(J98\.9)|(M79\.1.*)|(R05)|(R06)|(R06\.0.*|
(R06\.8)|(R06\.89)|(R06\.9)|(R07\.0)|(R09\.81)|(R50)|(R50\.8)|
(R50\.81)|(R50\.9)|(R51.*)|(R53)|(R53\.1)|(R53\.8)|(R53\.81)|
(R53\.83)|(R68\.83)$/', eSituation_11)
union
select pcrKey, eSituation_12 as diagnosis
    from Nemsis.factPcrSecondaryImpression where prxmatch('/^(J02.*|
(J03.*)|(J06)|(J80)|(J98\.9)|(M79\.1.*)|(R05)|(R06)|(R06\.0.*|
(R06\.8)|(R06\.89)|(R06\.9)|(R07\.0)|(R09\.81)|(R50)|(R50\.8)|
(R50\.81)|(R50\.9)|(R51.*)|(R53)|(R53\.1)|(R53\.8)|(R53\.81)|
(R53\.83)|(R68\.83)$/', eSituation_12)
    )
    group by pcrKey
    )
    where c > 1
    )
;
quit;

```

Discussion

The criteria for this case definition are not specifically tailored to select potential COVID-19 cases; instead, they select multiple influenza-like illnesses, including but not limited to potential COVID-19 cases.

The *CDC COVID-19 ICD-10-CM Official Coding and Reporting Guidelines* state,

“If the COVID-19 is documented as being associated with a respiratory infection, NOS, codes U07.1 and J98.8, *Other specified respiratory disorders*, should be assigned.”

“For acute respiratory distress syndrome (ARDS) due to COVID-19, assign codes U07.1, and J80, *Acute respiratory distress syndrome*.”

“During pregnancy, childbirth or the puerperium, a patient admitted (or presenting for a health care encounter) because of COVID-19 should receive a principal diagnosis code of O98.5-, *Other viral diseases complicating pregnancy, childbirth and the puerperium*, followed by code U07.1, COVID-19, and the appropriate codes for associated manifestation(s).”

ICD-10-CM code *U07.1 COVID-19* was not included because it is not valid in the NEMESIS XML Schema (XSD) and thus will not be present in NEMESIS-compliant data.

References

National Influenza-Like Illness (ILI) Surveillance Dashboard. Global Inclusion Criteria and Filters. wiki.utahdcc.org/confluence/display/NTD/National+Influenza-Like+Illness+%28ILI%29+Surveillance+Dashboard.

CDC COVID-19 ICD-10-CM Official Coding and Reporting Guidelines, April 1, 2020 through September 30, 2020. [cdc.gov/nchs/data/icd/COVID-19-guidelines-final.pdf](https://www.cdc.gov/nchs/data/icd/COVID-19-guidelines-final.pdf).