



# ESP CASE DETECTION ALGORITHM

## Influenza-like Illness

Document Version 2.2

Prepared by the Department of Population Medicine at Harvard Medical School and Harvard Pilgrim Health Care Institute on behalf of the Massachusetts Department of Public Health.

[esphealth@harvardpilgrim.org](mailto:esphealth@harvardpilgrim.org)

November 13, 2012

---

### Modification History

Version	Date	Modification	By
2.2	10/11/2017	Added ESP Logo and MDPH branding	DPM
2.1	7/5/2017	Transferred to new algorithm template	DPM
2.0	11/13/2012	Initial draft of algorithm spec	
1.0	2/16/2012	Initial definition and sample report	

---



1. Overview

The purpose of this document is to describe the criteria used to identify Influenza-like Illness (ILI) in MDPHnet data.

2. Criteria used to identify cases using ESP data

I. CASE CRITERIA

One ICD-9 code for any influenza-like symptom below **AND**

Measured fever >100°F OR ICD-9 code for fever (780.6)

3. Codes, laboratory tests, and medications used to identify criteria listed in Sections 2 and 3.

I. DIAGNOSIS CODES USED TO IDENTIFY INFLUENZA-LIKE ILLNESS

Influenza-like symptoms	ICD-9	079.3	Rhinovirus infect nos	No codes below this in the ICD9 hierarchy
		079.89	Other specified viral infection	No codes below this in the ICD9 hierarchy
		079.99	Unspecified viral infection	No codes below this in the ICD9 hierarchy
		460	Nasopharyngitis, acute	No codes below this in the ICD9 hierarchy
		462	Pharyngitis, acute nos	No codes below this in the ICD9 hierarchy
		464	Laryngitis and tracheitis, ac.	
		464.0	Laryngitis, ac.	
		464.00	Laryngitis, ac.w/o obstruct	No codes below this in the ICD9 hierarchy
		464.01	Laryngitis, ac.w/ obstruct	No codes below this in the ICD9 hierarchy
		464.1	Tracheitis, ac.	
		464.10	Ac tracheitis w/o obstruct	No codes below this in the ICD9 hierarchy
		464.11	Ac tracheitis w/ obstruct	No codes below this in the ICD9 hierarchy
		464.2	Laryngotracheitis, ac.	
		464.20	Ac laryngotrach w/o obstr	No codes below this in the ICD9 hierarchy
		464.21	Ac laryngotrach w/ obstr	No codes below this in the ICD9 hierarchy



		465	Uri, ac. Mult. Or unspec. Sites	
		465.0	Laryngopharyngitis, acute	No codes below this in the ICD9 hierarchy
		465.8	Uri, other mult. Sites	No codes below this in the ICD9 hierarchy
		465.9	Uri, acute nos	No codes below this in the ICD9 hierarchy
		466	Bronchitis and bronchiolitis acute	
		466.19	Bronchiolitis due other org's	No codes below this in the ICD9 hierarchy
		478.9	Respiratory tract disease	No codes below this in the ICD9 hierarchy
		480.8	Viral pneumonia nec	No codes below this in the ICD9 hierarchy
		480.9	Pneumonia, viral	No codes below this in the ICD9 hierarchy
		481	Pneumococcal pneumonia	No codes below this in the ICD9 hierarchy
		482.4	Staph pneumonia nos	
		482.41	Pneumonia, staphylococ. Aureus	No codes below this in the ICD9 hierarchy
		482.42	Mrsa pneumonia	No codes below this in the ICD9 hierarchy
		482.49	Oth staph pneumonia	No codes below this in the ICD9 hierarchy
		484.8	Pneum in infect dis nec	No codes below this in the ICD9 hierarchy
		485	Bronchopneumonia organism nos	No codes below this in the ICD9 hierarchy
		486	Pneumonia, organism nos	No codes below this in the ICD9 hierarchy
		487	Influenza	
		487.0	Influenza with pneumonia	No codes below this in the ICD9 hierarchy
		487.1	Influenza w/ oth resp manifest	No codes below this in the ICD9 hierarchy
		487.8	Influenza w/ oth manifest	No codes below this in the ICD9 hierarchy
		784.1	Pain in throat	No codes below this in the ICD9 hierarchy
		786.2	Cough	No codes below this in the ICD9 hierarchy
Fever	ICD-9	780.6	Fever	