Global Influenza Hospital Surveillance Network

Core questionnaire: Patients of all ages

Version 30 October 2025

QUESTIONNAIRE TO BE FINALIZED FOR ALL ENROLLED PATIENTS

*for all eligible patients hospitalized in the previous **72** hours and overnight hospitalization, who are able to communicate (alt. through a proxy), who have given consent to participate in the study **and** who are experiencing symptoms in the last 10 days prior to admission*

In the following questions, "do not know" answers apply for unknown information or not collected variables

Screening

1) How was patient identified as a potential surveillance case?

1.a. Case finding based on pre-defined admission diagnosis *(Refer to Annex1)* ○ Yes ○ No

1.b. Case finding based on hospital admission logs for acute respiratory illness ○ Yes ○ No

1.c. Case finding based on testing for influenza ○ Yes ○ No

2) Date of admission (yyyy-mm-dd) |__|__|__|__| - |__|__| - |__|__|

3) What is the hospital ID? |__|__|__|__|__|__|

4) Patient study identification number |__|__|__|__|__|__|__|__|__|

5) Sex ○ Female ○ Male

6) Age |__|__|__| ○ days ○ months ○ years

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7) Has the patient had any one of these symptoms <u>in the last 7-10 days prior to admission?</u> *<u>(mark all that applies)</u>*

a) ILI systemic symptoms

- ✓ Fever/history of fever ○ Yes ○ No ○ Do not know
- ✓ Malaise/fatigue/lethargy ○ Yes ○ No ○ Do not know

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- ✓ Headache ○ Yes ○ No ○ Do not know
- ✓ Myalgia/muscle ache/body-ache ○ Yes ○ No ○ Do not know

b) ILI respiratory symptoms

- ✓ Cough ○ Yes ○ No ○ Do not know
- ✓ Sore throat ○ Yes ○ No ○ Do not know
- ✓ Shortness of breath/difficult breathing ○ Yes ○ No ○ Do not know
- ✓ Wheezing ○ Yes ○ No ○ Do not know
- ✓ Nasal congestion/runny nose ○ Yes ○ No ○ Do not know

8) Case definition used: *(Refer to Annex 2) – One answer only*

8.1. SARI case definition ○ Yes ○ No

8.2. Extended SARI case definition ○ Yes ○ No

8.3. ECDC modified case definition – in last 7 days ○ Yes ○ No

8.4. ECDC modified case definition – in last 14 days ○ Yes ○ No

8.5. Acute respiratory illness case definition ○ Yes ○ No

8.6. Cases tested for Influenza ○ Yes ○ No

8.7. Other (please detail: .....) ○ Yes ○ No

Swabbing

9) a. Date of swabbing (yyyy-mm-dd) **(During hospital stay)** |__|__|__|__| - |__|__| - |__|__| ○ Do not know

Laboratory Results

10) a. Does the patient have a positive flu result? ○ Yes ○ No ○ Inadequate sample

b. If yes, tick the boxes corresponding to the positive virus(es)

☐ H1N1pdm09
☐ H1Nother
☐ H1Nunknown
☐ H3N2
☐ H3Nother
☐ H3Nunknown
☐ B/Yamagata
☐ B/Victoria
☐ Influenza A not subtyped
☐ Influenza B no lineage information

11) a. Did you test for other respiratory viruses? ○ Yes ○ No ○ Inadequate sample

b. If yes, tick the boxes indicating for which pathogen test was requested and whether test was positive or not

Test performed	Test result positive
☐ Adenovirus	☐ Yes ☐ No ☐ Do not know
☐ Bocavirus	☐ Yes ☐ No ☐ Do not know
☐ Common human coronaviruses	☐ Yes ☐ No ☐ Do not know
(229E, NL63, OC43, HKU1)	☐ Yes ☐ No ☐ Do not know
☐ Enterovirus	☐ Yes ☐ No ☐ Do not know
☐ Enterovirus/Rhinovirus	☐ Yes ☐ No ☐ Do not know
☐ Human Metapneumovirus	☐ Yes ☐ No ☐ Do not know
☐ MERS-CoV	☐ Yes ☐ No ☐ Do not know
☐ Parainfluenza viruses	☐ Yes ☐ No ☐ Do not know
☐ Respiratory syncytial virus	☐ Yes ☐ No ☐ Do not know
☐ Rhinovirus	☐ Yes ☐ No ☐ Do not know
☐ SARS-CoV	☐ Yes ☐ No ☐ Do not know
☐ SARS-CoV-2	☐ Yes ☐ No ☐ Do not know
☐ EV D68	☐ Yes ☐ No ☐ Do not know
☐ Others, please detail:	☐ Yes ☐ No ☐ Do not know

Submission of samples to GISAID EpiFlu™ database via the GISAID platform:
All genome sequence data from selected severe influenza cases and all COVID-19 cases are to be submitted on the GISAID platform on a continued basis (http://gisaid.org/EPI_ISL/123456)

Clinical history

Patient characteristics

12) Other signs or symptoms at disease presentation (i.e., started in the past 10 days) ***Mark all that applies or select not applicable***

- ✓ Nausea or vomiting — O Yes O No O Do not know
- ✓ Diarrhea — O Yes O No O Do not know
- ✓ New loss of taste or smell — O Yes O No O Do not know
- ✓ Chest pain — O Yes O No O Do not know

13) a. Pregnancy status — O Yes O No O Non-applicable

b. If yes, pregnancy weeks: |__|__| weeks O Do not know

14) Height (Only for children <5 years - *Round up to the nearest integer*) |__|__|__| cm O Do not know

15) Weight (Only for children <5 years - *Round up to the nearest integer*) |__|__|__| kg O Do not know

16) a. Does the patient have any chronic conditions? O Yes O No O Do not know

b. If yes, indicate which ones (*Mark all that applies*)

- ☐ Cardiovascular disease — O Do not know
- ☐ Chronic lung disease (such as chronic obstructive pulmonary disease [COPD] and cystic fibrosis) — O Do not know
- ☐ Asthma — O Do not know
- ☐ Diabetes — O Do not know
- ☐ Immunodeficiency (**except HIV**) / Organ transplant — O Do not know
- ☐ Renal impairment — O Do not know
- ☐ Rheumatologic disease / Autoimmune disease — O Do not know
- ☐ Neurological or neuromuscular disease — O Do not know
- ☐ Cirrhosis / Liver disease — O Do not know
- ☐ Neoplasm (active) — O Do not know

☐ Obesity ○ Do not know
☐ Active tuberculosis ○ Do not know
☐ Malnutrition (Only for children < 5 years) ○ Do not know
☐ HIV infection ○ Do not know
☐ HIV exposure (if children < 5 year) ○ Do not know
☐ Hemoglobinopathies ○ Do not know
☐ Born premature, ie., <37 week gestation (Only for children < 5 years) ○ Do not know
☐ Other ○ Do not know

17) a. Use of influenza antivirals (oseltamivir, zanamivir, favipiravir o peramivir) **for the current episode initiated before this admission?** ○ Yes ○ No ○ Do not know

b. Starting Date (yyyy-mm-dd) |__|__|__|__| - |__|__| - |__|__|

18) a. Use of influenza antiviral (oseltamivir, zanamivir, favipiravir o peramivir) for the current episode initiated during this admission ○ Yes ○ No ○ Do not know

b. Starting Date (yyyy-mm-dd) |__|__|__|__| - |__|__| - |__|__|

19) a. Use of antibiotics preceding this admission? ○ Yes ○ No ○ Do not know

b. Starting Date (yyyy-mm-dd) |__|__|__|__| - |__|__| - |__|__|

20) a. Use of antibiotics during this admission? ○ Yes ○ No ○ Do not know

b. Starting Date (yyyy-mm-dd) |__|__|__|__| - |__|__| - |__|__|

Vaccination Status

21) Vaccination status influenza:
a. Influenza vaccination for the <u>current season</u> ○ Yes ○ No ○ Do not know
If yes :

i. Vaccinated more than 14 days before onset of acute respiratory symptoms ○ Yes ○ No ○ Do not know
ii. Vaccination history for current season validated through registry or medical records? ○ Yes ○ No ○ Do not know
iii. Influenza vaccination in the preceding season? ○ Yes ○ No ○ Do not know

22) Vaccination status COVID-19:
a. COVID-19 vaccination <u>in the last 6 months</u> ○ Yes ○ No ○ Do not know

Severity (measured at admission)

23) Confusion/lethargy O Yes O No O Do not know

24) Blood pressure (systolic/diastolic) |__|__|__| / |__|__|__|mmHg O Do not know

25) Respiratory rate (breaths per minute) |__|__| bpm O Do not know

26) Oxygen saturation value on ambient air (%) |__|__|__| % O Do not know

27) Supplemental oxygen without mechanical ventilation O Yes O No O Do not know

28) Vasopressor support O Yes O No O Do not know

29) Apnea (only for children <5) O Yes O No O Do not know

Severity (measured at any time during admission)

30) ICU admission (at any time during hospitalization) O Yes O No O Do not know

31) High dependence unit (at any time during hospitalization) *(See Annex 4 for definition)* O Yes O No O N/A or Do not know

32) Mechanical ventilation (at any time during hospitalization, and including ecmo) O Yes O No O Do not know

Outcome

33) Death while hospitalized O Yes O No O Do not know

34) Discharge/death date (yyyy-mm-dd) |__|__|__|__| - |__|__| - |__|__|

35) Transfer to another hospital/Left against medical orders O Yes O No O Do not know

36) a. ICD used O ICD-9 O ICD-10 O ICD-11

b. Main diagnose at discharge/death (letter/code.subcode) |__|__|__| . |__|__| O Not available

c. Secondary 1 diagnose at discharge/death (letter/code.subcode) |__|__|__| . |__|__| O Not available

d. Secondary 2 diagnose at discharge/death (letter/code.subcode) |__|__|__| . |__|__| O Not available

37) GISAID EpiFlu™ database sharing:

a. Did you submit the sample to GISAID EpiFlu™ database? ○ Yes ○ No ○ No, failed sequencing

b. If yes, please enter the GISAID Accession Number (EPI_ISL)

The GISAID Accession Number needs to be completed for the data linkage (clinical/sequencing).

☐ Influenza (EPI_ISL_) |__|__|__|__|__|__|__|__|__|
☐ SARS-CoV2 (EPI_ISL_) |__|__|__|__|__|__|__|__|__|
☐ Respiratory syncytial virus (EPI_ISL_) |__|__|__|__|__|__|__|__|__|

End of the questionnaire. Please send the questionnaire to PI for recording.

Annex 1: Admission diagnoses

Case ascertainment/Case finding

You can use this Table as a guidance to identify patients that may be eligible to participate in the surveillance system. You can use the list of acute events and/or ICD codes if available at your hospital or you can rely on other case ascertainment strategies, like looking at hospital admission logs, or looking at emergency department logs, infectious disease contacts etc.

Table 1. Example of admission diagnoses possibly associated with an influenza infection that could be taken into account when looking for eligible patients. International Classification of Diseases Code version 9 and 10.

For patients less than 5 years	ICD 9 Codes	ICD 10 Codes
Acute upper or lower respiratory disease	382.9; 460 to 466	J00-J06, J20-J22
Dyspnea, breathing anomaly, shortness of breath, tachypnea (polypnea)	786.0; 786.00; 786.05-786.07; 786.09; 786.9	R06.0, R06, R06.9, R06.3, R06.00, R06.09, R06.83, R06.02, R06.82, R06.2, R06.89
Acute asthma or exacerbation	493.92	J45.901
Pneumonia and influenza	480 to 488	J09-J18
Acute respiratory failure	518.82	J96
Acute heart failure	428-429.0	I50-I50.9; I51.4
Myalgia	729.1	M79.1
Altered consciousness, convulsions, febrile convulsions	780.01-780.02; 780.09; 780.31-780.32	R40.20, R40.4, R40.0, R40.1, R56.00, R56.01
Fever or fever unknown origin or non specified	780.6-780.60	R50, R50.9
Cough	786.2	R05
Gastrointestinal manifestations	009.0; 009.3	A09.0; A09.9
Sepsis, Systemic inflammatory response syndrome, not otherwise specified	995.90-995.94	R65.10, R65.11, R65.20, A41.9
Nausea and vomiting	078.82; 787.0; 787.01-787.03	R11; R11.0; R11.10 - R11.12; R11.2
Loss of smell, loss of taste		R43.8 , R43.8,

Pneumonia due to coronavirus disease 2019		J12.82, U07.1,
Coronavirus infection, unspecified		B34.2, U07.1, J12.81
SARS-associated coronavirus as the cause of diseases classified elsewhere		B97.21
Bacterial infection, unspecified, in conditions classified elsewhere and of unspecified site	041.9	
Transient cerebral ischemia	435	
Acute, but ill-defined, cerebrovascular disease	436	
Chronic bronchitis	491	
Asthma	49	
Chronic airway obstruction, not elsewhere classified	496	
Dizziness / Vertigo, NOS	780.4	
Altered mental status	780.97	
Symptoms concerning nutrition, metabolism and development: Feeding difficulties and mismanagement	783.3	
Symptoms concerning nutrition, metabolism and development : Other	783.9	
Viremia, unspecified	790.8	

For patients 5 years and older	**ICD 9 Codes**	**ICD 10 Codes**
Acute upper or lower respiratory disease	382.9; 460-466	J00-J06, J20-J22, H66.90
Acute myocardial infarction or acute coronary syndrome	410-411 and 413-414	I20-I25.9
Acute asthma or exacerbation	493.92	J45.901
Acute Heart failure	428-429.0	I50-I50.9; I51.4
Pneumonia and influenza	480-488	J09-J18
Bronchitis and exacerbations of Chronic Pulmonary Obstructive disease	490, 491.21 and 491.22,	J40; J44.0; J44.1

Acute respiratory failure	518.82	J96
Myalgia	729.1	M79.1
Acute metabolic failure (diabetic coma, renal dysfunction, acid-base disturbances, alterations to the water balance)	250.1- 250.3; 584-586; 276-277	E11.9, E10.9, E11.65, E10.65, E10.11, E11.01, E10.641, E11.641, E10.69, E11.00, E10.10, E11.69, N17.0, N17.1, N17.2, N17.8, N17.9, N18.1, N18.2, N18.3, N18.4, N18.5, N18.6M N18.9, N19, E87.0, E87.1, E87.2, E87.3, E87.4, E87.5, E87.6, E87.70, E87.71, E87.79, E86.0, E86.1
Altered consciousness, convulsions, febrile convulsions, syncope and collapse	780.01-780.02; 780.09; 780.2; 780.31-780.32	R40.20, R40.4, R40.0, R40.1, R55, R56.00, R56.01
Dyspnea/respiratory abnormality	786.0	R06.0, R06-R06.9
Respiratory abnormality	786.00	R06.9
Shortness of breath	786.05	R06.02
Respiratory abnormality not otherwise specified	786.09	R06.3, R06.00, R06.09, R06.83
Respiratory symptoms/chest symptoms	786.9	R06.89
Fever or fever unknown origin or non-specified	780.6-780.60	R50, R50.9
Cough	786.2	R05
Sepsis, Systemic inflammatory response syndrome	995.90-995.94	R65.10, R65.11, R65.20, A41.9
Loss of smell, loss of taste		R43.8 , R43.8,
Pneumonia due to coronavirus disease 2019		J12.82, U07.1,
Coronavirus infection, unspecified		B34.2, U07.1, J12.81
SARS-associated coronavirus as the cause of diseases classified elsewhere		B97.21
Bacterial infection, unspecified, in conditions classified elsewhere and of unspecified site	041.9	

Transient cerebral ischemia	435	
Acute, but ill-defined, cerebrovascular disease	436	
Chronic bronchitis	491	
Asthma	49	
Chronic airway obstruction, not elsewhere classified	496	
Dizziness / Vertigo, NOS	780.4	
Altered mental status	780.97	
Symptoms concerning nutrition, metabolism and development: Feeding difficulties and mismanagement	783.3	
Symptoms concerning nutrition, metabolism and development : Other	783.9	
Viremia, unspecified	790.8	

Annex 2: Case definitions

1. **Severe acute respiratory infection (SARI)** case definition (https://www.who.int/teams/global-influenza-programme/surveillance-and-monitoring/case-definitions-for-ili-and-sari)

An acute respiratory infection with:

- history of fever or measured fever of ≥ 38C°
- and cough;
- with onset within the last 10 days.
- and requires hospitalization

2. **Extended SARI case definition**

   An acute respiratory infection with cough and onset within 10 days that requires hospitalization (no fever required)

3. **ECDC modified case definition for influenza like-illness (ILI) in last 7 days**

Combination of:

- at least one of the following four systemic symptoms: fever or feverishness, headache, myalgia, or malaise;
- at least one of the following three respiratory symptoms: cough, sore throat or shortness of breath

4. **ECDC modified case definition for influenza like-illness (ILI) in last 14 days**

Combination of:

- at least one of the following four systemic symptoms: fever or feverishness, headache, myalgia, or malaise;
- at least one of the following three respiratory symptoms: cough, sore throat or shortness of breath

5. **Acute respiratory illness case definition**: Acute onset of at least one of the following four respiratory symptoms: cough or sore throat or shortness of breath or coryza and a clinician's judgment that illness is due to infection

6. **Cases Tested for influenza –** a hospitalized person who has been tested for influenza within 72 hours of hospital admission

Annex 3: High dependency units

When considering high dependency units, please bear the following in mind:

- **High dependency units (HDUs) are wards for people who need more intensive observation, treatment and nursing care than is possible in a general ward but slightly less than that given in intensive care unit (ICU).**
- **Another way to distinguish the two units is by the nurse to patient ratio. In ICU you may have the nurse to patient ratio as 1:1 whereas this may be 1:2 or 1:3 in HDUs. In a normal ward we can have 1 nurse covering up to 15 patients. Again, these are realities that may differ from country to country depending on resource availability.**
- **Not all hospitals will have HDUs, and each country or hospital may have a different level of accepted care at their HDU facilities. For instance, often mechanical ventilation is implemented in the ICU environment, but some hospitals (depending on country's policy) may have patients in mechanical ventilation staying at their HDUs.**

If your hospital does not have a HDU, please chose "not applicable" option in the database