

### Core questionnaire: Patients of all ages

Version 4 September 2023

#### 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				
	1.a. Case	finding based on pre-defined admission diagno	osis (Refer to Annex1)	O Yes	O No
	If Yes:				
	i.	Admission diagnosis (letter/code.subcode)		O Not availa	ble
	ii.	ICD version used	O ICD-9	) ICD-10	
	1.b. Case	finding based on hospital admission logs for a	cute respiratory illness	<b>O</b> Yes	O No
		finding based on positive swab from hospital d	liagnostic test	Oyes	O No
2)	Date of a	dmission (yyyy-mm-dd)		-	
3)	What is t	he hospital ID?			
4)	Patient s	tudy identification number		_	
5)	Sex		O Female	<b>)</b> Male	
6)	Age		<b>O</b> days <b>C</b>	) months O year	ars

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

	✓ Fever/l	history of fever	O Yes	O No	O Do not know
	✓ Malais	e/fatigue/lethargy	O Yes	O No	O Do not know
	✓ Heada	che	O Yes	O No	O Do not know
	✓ Myalgi	a/muscle ache/body-ache	O Yes	O No	O Do not know
	b) ILI respira	atory symptoms			
	✓ Cough		O Yes	O No	O Do not know
	✓ Sore the	nroat	O Yes	O No	O Do not know
	✓ Shortn	ess of breath/difficult breathing	O Yes	O No	O Do not know
	✓ Wheez	ing	O Yes	O No	O Do not know
	✓ Nasal o	congestion/runny nose	O Yes	O No	O Do not know
8)	Case definition	on used: (Refer to Annex 2) – One answer	only		
	8.1. SARI case	definition	O Yes	O No	
	8.2. Extended	SARI case definition	O Yes	O No	
	8.3. ECDC mod	dified case definition	O Yes	O No	
	8.4. Acute res	piratory illness case definition	O Yes	O No	
	8.5. Laborator	ry confirmed influenza	O Yes	O No	
	8.6. Laborator	ry confirmed Covid-19	O Yes	O No	
	8.7. Other (ple	ease detail:)	O Yes	O No	

Sequencing scheme for all samples (patients of all ages):

Hemisphere	Early season	ICU/deaths and vaccine failures	Samples per month
Northern	all samples until 15 January	All	10-30 (during season)
Southern	all samples until 15 July	All	10-30 (during season)
Intertropical	NA	All	5-15 (all year)

# Swabbing

9)	a. Date of swabbing (yyyy-mm-dd) (During hospital stay)	_  <b>-</b>  _	_ _  -		O Do not know
	b. Date of swabbing (yyyy-mm-dd) (For -19 Only - if done within 14 days from al admission date)	_ _ -	-	.	O NA
	Labo	ratory Results			
10)	a. Does the patient have a positive flu resu			O No	O Inadequate sample
	b. If yes, tick the boxes corresponding to t	he positive virus(e:	s)		
	☐ H1N1pdm09				
	☐ H3N2				
	☐ B/Yamagata				
	☐ B/Victoria				
	☐ Influenza A not subtyped				
	☐ Influenza B no lineage information				
11)	<ul><li>a. Did you test for other respiratory viruses</li><li>b. If yes, tick the boxes indicating for whether test was positive or not</li></ul>		O Yes		O Inadequate sample
	Test performed	Test result posit	tive		٦
	□ Adenovirus	☐ Yes ☐ No	cive		_
	□ Bocavirus	☐ Yes ☐ No			
	☐ Common human coronaviruses	☐ Yes ☐ No			
	(229E, NL63, OC43, HKU1)	☐ Yes ☐ No			
	☐ Enterovirus	☐ Yes ☐ No			
	☐ Human Metapneumovirus	☐ Yes ☐ No			
	☐ MERS-CoV	☐ Yes ☐ No			
	☐ Parainfluenza viruses	☐ Yes ☐ No			
	☐ Picornavirus	☐ Yes ☐ No			
	☐ Respiratory syncytial virus	☐ Yes ☐ No			
	☐ Rhinovirus	☐ Yes ☐ No			
	I □ SARS-CoV	THES HIND			
	☐ SARS-CoV-2	☐ Yes ☐ No			
	☐ SARS-CoV ☐ SARS-CoV-2 ☐ Others, please detail:	Yes No			

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)		signs or symptoms at disease presentation (i.e., so	tarted in t	he past 1	I0 da	ays) <i>Mark all</i>
	that ap	pplies or select not applicable				
	$\checkmark$	Nausea or vomiting	O Yes	O No	0	Do not know
	✓	Diarrhea	O Yes	O No	0	Do not know
	✓	New loss of taste or smell	O Yes	O No	0	Do not know
	✓	Chest pain	O Yes	O No	0	Do not know
13)	a. Preg	gnancy status	O Yes	O No	0	Non-applicable
	b. If ye	es, pregnancy weeks:	_ w	eeks	0	Do not know
	<b>Height</b> <i>integer</i>	t (Only for children <5 years - <i>Round up to the nearest</i>		cm	0	Do not know
	_	<b>t</b> (Only for children <5 years - <i>Round up to the t integer</i> )		kg	0	Do not know
16)	a. Doe	s the patient have any chronic conditions?	O Yes	O No	0	Do not know
	b. If ye	es, indicate which ones (Mark all that applies)				
		Cardiovascular disease				
		Chronic lung disease (such as chronic obstructive puln ibrosis)	nonary dise	ease [COF	PD] a	and cystic
	$\Box A$	Asthma				
		Diabetes				
		mmunodeficiency ( <b>except HIV</b> ) / Organ transplant				
		Renal impairment				
		Rheumatologic disease / Autoimmune disease				
		Neurological or neuromuscular disease				
		Cirrhosis / Liver disease				
		Neoplasm (active)				
		Dbesity				
	$\Box A$	Active tuberculosis				
		Malnutrition ( Only for children < 5 years)				
		HIV infection				
	□F	HIV exposure (if children < 5 year)				

	☐ Hemoglobinopathies	. =	,		
	$\square$ Born premature, ie., <37 week gestation (Only for childrest) $\square$ Other	en < 5 year	·s)		
17)	<b>a. Use of influenza antivirals (</b> oseltamivir, zanamivir, favipiravir o peramivir) <b>for the current episode initiated before this admission?</b>	O Yes	O No	O Do no	t know
	<b>b. Starting Date</b> (yyyy-mm-dd)	_	<b>-</b>  _	_	
18)	a. Use of influenza antiviral (oseltamivir, Zanamivir, favipiravir o peramivir) for the current episode initiated during this admission	es <b>O</b> N	o <b>O</b> D	o not kno	W
	<b>b. Starting Date</b> (yyyy-mm-dd)	_   -	_  -  _	_ _	
19)	a. Use of antibiotics preceding this admission?	Yes O	No O	Do not kr	now
	<b>b. Starting Date</b> (yyyy-mm-dd)	-	-   _	_	
20)	a. Use of antibiotics during this admission?	Yes O	No O	Do not ki	now
	b. Starting Date (yyyy-mm-dd)	<u>   -   </u>	_  -   _	_	
1)	Vaccination Status  Vaccination status influenza:				
1)	Vaccination status influenza: a. Influenza vaccination for the <u>current season</u>		O Yes	O No	O Do not know
	If yes:				
	b. Vaccinated more than 14 days before onset of acute respiratory symptoms		O Yes	O No	O Do not know
	c. Vaccination history for current season validated throregistry or medical records?	ough	O Yes	O No	O Do not know
	d. Type of influenza vaccine?		O IIV3	O IIV4	O Do not know
	e. Influenza vaccination in the preceding season?		O Yes	O No	O Do not know
2)	Vaccination status COVID-19:	_	_	_	_
	a. How many COVID-19 vaccine doses received? O None	O One	O Two	O Thre	
	<b>b.Date of last vaccine dose</b> (yyyy-mm-dd)		_   -	-	
	c.If at least one dose received, which type(s) of COVID-19 vaccine(s)? (check all that apply)	O Inact Sinovac) O Viral	ivated who	le virion (e	er BioNtech) .g., Sinopharm, .straZenica,
		Sputnik)			

0	Protein subunit vaccine (e.g., Novavax)
0	Do not know

## Severity (measured at admission)

3)	Confusion/lethargy	O Yes O No	O Do not know
4)	Blood pressure (systolic/diastolic)	_  _  /   _ mmHg	Do not know
5)	Respiratory rate (breaths per minute)	bpm	O Do not know
6)	Oxygen saturation value on ambient air (%)	%	O Do not know
7)	Supplemental oxygen without mechanical ventilation	O Yes O No	O Do not know
-	Vasopressor support Apnea (only for children <5)	O Yes O No O Yes O No	
10)	What is the baseline frailty score of the patient (only for all patients 50 years and older), prior to onset of the current illness? (category 1-9) (see annex 3 for definition of the scale)	gory     O Do no	ot know
	Severity (measured at any time durin	g admission)	
11)	ICU admission (at any time during hospitalization)	O Yes O No	O Do not know
12)	High dependence unit (at any time during hospitalization) (	See O Yes O N	Io ON/A or Don <b>bito</b> k
13)	Annex 4 for definition)  Mechanical ventilation (at any time during hospitalization)	O yes O No	O Do not know
	Outcome		
14)	Death while hospitalized	O Yes O No	O Do not know
15)	Discharge/death date (yyyy-mm-dd)	_ - -	-
16)	Transfer to another hospital/Left against medical orders	O Yes O No	O Do not know
17)	a. Main diagnose at discharge/death (letter/code.subcode)	•    available	O <sub>Not</sub>
	b. Secondary 1 diagnose at discharge/death (letter/code.sub		_ O <sub>Not</sub>
	c. Secondary 2 diagnose at discharge/death (letter/code.sub	code <b>)</b>	O <sub>Not</sub>
	d. ICD used	O ICD-9	O ICD-10
18)	What is the frailty score of the patient at discharge (only for patients 50 years and older)? (category 1-9)  See annex 2 for definition of the scale	o <b>r all</b> Category	O Do not know

# Data Linking

19)	GISAID EpiFlu™ database sharing: a. Did you submit the sample to GISAID EpiFlu™ database?	0	Yes	O No	O No, failed sequencing
	<b>b. If yes, please enter the GISAID Accession Number (EPI_ISL)</b> The GISAID Accession Number needs to be completed for the data linkage (clin	<u>      </u> nical/s	_ sequer	 ncing).	
	c. Please indicate if it is an influenza sample, or a Covid-19 sam	ple, o	or bot	th.	

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	150-150.9; 151.4
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	120-125.9
Acute asthma or exacerbation	493.92	J45.901
Acute Heart failure	428-429.0	150-150.9; 151.4
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)	1 250 1- 250 3. 584-	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	

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

An acute respiratory infection with:

- history of fever or measured fever of  $\geq$  38C $^{\circ}$
- 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. 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
- 5. Laboratory confirmed influenza a hospitalized person who has a positive laboratory test for influenza within 48 hours of hospital admission
- 6. Laboratory confirmed COVID-19 Laboratory confirmed Covid-19 a hospitalized person who has a positive laboratory test for Covid-19 before or during hospital admission. If test result before admission, the current admission should be associated with this episode of COVID-19 6

The frailty scale according to the categories defined below. If a subject is in between levels use best judgement.

Category 1: Very Fit. People who are robust, active, energetic and motivated. The people commonly exercise regularly. They are among the fittest for their age.

Category 2: Well. People who have no active disease symptoms but are less fit than category 1. Often, they exercise or are very active occasionally, e.g. seasonally

Category 3: Managing Well. People whose medical problems are well controlled but are not regularly active beyond routine walking.

Category 4: Vulnerable. While not dependent on others for daily help, often symptoms limit activities. A common complaint is being "slowed up", and/or being tired during the day.

Category 5: Mildly Frail. These people often have more evident slowing, and need help in high order IADLs (finances, transportation, heavy housework, medications). Typically, mild frailty progressively impairs shopping and walking outside alone, meal preparation and housework.

Category 6: Moderately Frail. People need help with all outside activities and with keeping house. Inside, they often have problems with stairs and need help with bathing and might need minimal assistance (cuing, standby) with dressing.

Category 7: Severely Frail. Completely dependent for personal care, from whatever cause (physical or cognitive). Even so, they seem stable and not at high risk of dying (within  $\sim$  6 months)

Category 8: Very Severely Frail. Completely dependent, approaching the end of life. Typically, they could not recover even from a minor illness.

Category 9: Terminally III. Approaching the end of life. This category applies to people with a life expectancy <6 months, who are not otherwise evidently frail.

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