

# Case Definitions

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- ❑ Suspected case
- ❑ Probable case
- ❑ Confirmed case

# Avian Influenza—H5N1

## Suspected Human Case

A person presenting with unexplained acute lower respiratory illness with fever ( $\geq 38^{\circ}\text{C}$ ) and cough, shortness of breath or difficulty in breathing

AND

One or more of the following exposures in the seven days prior to the onset of the symptom:

- a) Close contact (within 1 meter) with a person (e.g. caring for, speaking with or touching) who is a suspected, probable, or confirmed H5N1 case
- b) Exposure (e.g. handling, slaughtering, plucking, butchering, preparing for consumption) to poultry or wild birds or their remains or to environments contaminated by their faeces in an area where H5N1 infections in animals or humans have been suspected or confirmed in the last month
- c) Consumption of raw or undercooked poultry products in an area where H5N1 infections in animals or humans have been suspected or confirmed in the last month
- d) Close contact with a confirmed H5N1 infected animal other than poultry or wild birds (e.g. cat or pig)
- e) Handling samples (animal or human) suspected of containing H5N1 virus in a laboratory or other setting

# Avian Influenza—H5N1

## Probable Human Case

### Probable definition 1:

A person meeting the criteria for a suspected case

AND

One of the following additional criteria:

- a) Infiltrates or evidence of an acute pneumonia on chest radiograph plus evidence of respiratory failure (hypoxemia, severe tachypnea)  
OR
- b) Positive laboratory confirmation of an influenza A infection but insufficient laboratory evidence for H5N1 infection

### Probable definition 2:

A person dying of an unexplained acute respiratory illness who is considered to be epidemiologically linked by time, place & exposure to a probable or confirmed H5N1 case

# Avian Influenza—H5N1

## Confirmed Human Case

A person meeting the criteria for a suspected or probable case

AND

One of the following positive results conducted in a national, regional or international influenza laboratory whose H5N1 test results are accepted by WHO as confirmatory:

- a) Isolation of an H5N1 virus
- b) Positive H5 PCR results from tests using two different PCR targets, e.g. primers specific for influenza A and H5 HA
- c) A fourfold or greater rise in neutralisation antibody titre for H5N1 based on testing of an acute serum specimen (collected 7 days or less after symptom onset) and a convalescent serum specimen. The convalescent neutralising antibody titre must also be 1:80 or higher
- d) A micro-neutralisation antibody titre for H5N1 of 1:80 or greater in a single serum specimen collected on day 14 or later after symptom onset and a positive result using a different serological assay, for example, a horse red blood cell hemagglutination inhibition titer of 1:160 or greater or an H5-specific western blot positive result

# Pandemic Influenza A (H1N1)

## Suspected Human Case

A person acute febrile (fever  $\geq 38^{\circ}\text{C}$ ) respiratory illness with:

- onset within 7 days of close contact with a person who is a confirmed case of novel influenza A (H1N1) virus infection, or
- onset within 7 days of travel to a community where there are one or more confirmed novel influenza A (H1N1) cases, or
- residence in a community where there are one or more confirmed novel influenza A (H1N1) cases

# Pandemic Influenza A (H1N1)

## Probable Human Case

A person with acute febrile (fever  $\geq 38^{\circ}\text{C}$ ) respiratory illness meeting the criteria for a suspected case:

- who is positive for influenza A, but unsubtypable for H1 and H3 by influenza RT-PCR or reagents used to detect seasonal influenza virus infection, or
- who is positive for influenza A by an influenza rapid test or an Influenza Immunofluorescence Assay (IFA), or
- with a clinically compatible illness who died of an unexplained acute respiratory illness who is considered to be epidemiologically linked to a probable or confirmed case

# Pandemic Influenza A (H1N1)

## Confirmed Human Case

A person with acute febrile (fever  $\geq 38^{\circ}\text{C}$ ) respiratory illness meeting the criteria for a suspected or probable case with positive test result for novel influenza A (H1N1) virus infection at WHO approved laboratories by one or more of the following tests:

- ❑ Real time RT-PCR
- ❑ Viral culture
- ❑ Four-fold rise in novel influenza A(H1N1) virus specific neutralising antibodies between acute and convalescent serum samples

# Cases of Severe Acute Respiratory Infections (SARI)

- **For persons 5 years and above:**

Acute respiratory illness with fever ( $\geq 38^{\circ}\text{C}$ ) and cough or sore throat with shortness of breath or difficulty breathing of a severity requiring hospitalisation

- **Any child below 5 years:**

Clinical suspicion of pneumonia requiring hospitalisation

# Cluster of SARI Cases

## Detection of:

Two or more persons:

- presenting with manifestations of unexplained acute lower respiratory illness with fever ( $\geq 38^{\circ}\text{C}$ )
- or
- dying of an unexplained respiratory illness
- with onset of illness in a two week period
- in the same geographical area
- and/or are epidemiologically linked

# Influenza like Illness (ILI)

- ❑ Sudden onset of a fever over 38°C AND
  - ❑ Cough or sore throat
- AND
- ❑ An absence of other diagnoses

# Person under Investigation/Observation

- A person whom public health authorities have decided to investigate/observe for possible H5N1/H1N1 infection

**Thank You**