



## Avian Influenza in Human

### Case Detection and Testing protocol

### Patient with Acute Respiratory Illness

The initial entry point for the protocol; clinicians must assess the severity of respiratory symptoms.



**Does the patient have ANY of the following?**

- Severe Acute Respiratory Infection (SARI)
- Acute Respiratory Distress Syndrome (ARDS)
- Rapidly progressive pneumonia of unknown cause

**No**

**YES**

Routine clinical management

Assess epidemiological exposure during the previous **14 days**  
**Any ONE of the following:**

- Direct contact with sick/dead poultry or wild birds
- Poultry culling/slaughtering/defeathering
- Exposure to infected poultry farm/backyard poultry
- Exposure to live bird market
- Exposure to laboratory-confirmed avian influenza in animals
- Close contact with lab-confirmed/probable human avian influenza case

**No**

**YES**

**Test for Influenza A, B and SARS-CoV-2**

**In patient with any of the following;**

- Unexplained rapidly progressive pneumonia
- Unexplained ARDS
- Unexplained death in cases with fever and respiratory illness (SARI/Pneumonia/ARDS) after exclusion of common causes

**POSITIVE**

**NEGATIVE**

Send the sample for Influenza typing at National Influenza Center (NIC)- NPHL

**Suspected Human Avian Influenza Case**  
*\*meeting both clinical and exposure criteria*

### Immediate Actions

#### ISOLATE AND NOTIFY

Immediately isolate the patient using *airborne* and *contact precautions* and **notify EDCCD**

Follow guidance from EDCCD before proceeding with sample collection.

#### Sample collection in VTM :

- Nasopharyngeal/Oropharyngeal Swab
- If intubated, collect endotracheal aspirate/BAL

#### Packaging & Sample Transportation to NPHL

- Cold chain maintain (2–8°C)
- Triple Layer Packaging
- Refer to National Guideline for Sample Collection and Transportation

### Laboratory Testing Pathway (NPHL)

#### Test for Influenza (rRT-PCR)

The first step at the NPHL to determine if the sample is positive for Influenza 'A' or 'B'

**Influenza 'A'**

**NEGATIVE**

**POSITIVE**

#### Subtype for H1 and H3

H1 or H3 detected

H1 or H3 'not detected'

#### Subtype for H5, H7 and H9

H5, H7 or H9 detected

H5, H7 or H9 not detected – Untypable influenza A

### Detection and Reporting

Report Immediately to EDCCD through a secure channel to initiate public health investigation

### International Referral

Refer samples to WHO CCs for confirmation if H5/H7/H9 is detected or samples remain untyped (negative for H1, H3, H7 and H9)