

Detecting Spread of Influenza A(H7N9) Virus Beyond China

Technical Appendix

Technical Appendix Table. Case definitions of severe acute respiratory infection (SARI), influenza-like illness (ILI), and passive pneumonia surveillance systems, Vietnam, Thailand Cambodia, and Laos

Country/surveillance system	Case definition
Vietnam	
SARI	<p>(Onset within 7 d)</p> <p>For ≥ 5 yrs old</p> <ul style="list-style-type: none"> • Temperature $\geq 38.0^{\circ}\text{C}$ AND • Cough OR Sore throat AND • Shortness of breath OR difficult breathing AND • Requires hospitalization <p>For < 5 yrs old:</p> <ul style="list-style-type: none"> • Temperature $\geq 38.0^{\circ}\text{C}$ AND • Cough or difficult breathing AND • At least one of the following <ul style="list-style-type: none"> - Unable to drink or breastfeed at all - Vomits everything (not only occasional) - Chest indrawing (retractions under ribcage on inspiration) - Lethargic or unconscious (ensure patient is awake) - Oxygen saturation $< 90\%$ - Nasal flaring - Convulsions - Stridor in a calm child - Grunting - Tachypnea (< 2 mo—RR > 60; 2–12 mos—RR > 50; 1–4yrs—RR > 40) AND • Requires hospitalization
ILI	<ul style="list-style-type: none"> • Temperature $> 38^{\circ}\text{C}$ (temperature measurement is required at consultation room) • Cough and/or sore throat • No other causes are identified
Passive pneumonia surveillance	<ul style="list-style-type: none"> • Temperature $> 38^{\circ}\text{C}$ (measured at consultation room or reported) • Difficult breathing (determined by rapid respiratory rate, shortness of breath or blood oxygen/ carbon dioxide saturation level) • Chest radiograph consistent with viral pneumonia • No suspect diagnoses of other etiology, such as bacterial pneumonia or tuberculosis were made.
Thailand	
SARI	<ul style="list-style-type: none"> • Clinical diagnosis of pneumonia or community-acquired pneumonia or ILI
ILI	<ul style="list-style-type: none"> • Temperature $\geq 38^{\circ}\text{C}$ or having fever history AND • Cough and/or sore throat during the past 5 d
Passive pneumonia surveillance	<ul style="list-style-type: none"> • Clinician defined
Event-based surveillance	<ul style="list-style-type: none"> • Cluster of ≥ 2 cases linked in time and space; severe respiratory illness associated with dead or dying poultry
Severe and fatal pneumonia surveillance	<ul style="list-style-type: none"> • Community-acquired pneumonia requiring intubation that does not respond to treatment within 48 hours or resulted in death
Cambodia	
SARI	<ul style="list-style-type: none"> • Temperature $> 38^{\circ}\text{C}$ AND • Cough or sore throat AND • Shortness breath or difficult breathing AND • Admission to the hospital, with onset disease within 10 d.
ILI	<ul style="list-style-type: none"> • Temperature $> 38^{\circ}\text{C}$ AND • Cough or sore throat with onset disease within 5 d
CAM-EWARN	<ul style="list-style-type: none"> • A person > 5 y old with a temperature $\geq 38^{\circ}\text{C}$ and any following: cough or difficult breathing or shortness of breath. • A child 1–5 y old with cough or difficult breathing AND breathing rate of $> 40/\text{min}$.

Country/surveillance system	Case definition
Laos	<ul style="list-style-type: none"> • An infant aged 2 mos to <1 y with cough or difficulty breathing AND breathing rate of >50/mi. • Any person with evidence of pneumonia on chest radiograph.
SARI	<ul style="list-style-type: none"> • An acute respiratory infection with history of fever or measured temperature $\geq 38^{\circ}\text{C}$ AND • cough AND • onset within the last 7 d AND • requires hospitalization
ILI	<ul style="list-style-type: none"> • An acute respiratory infection with measured temperature of $\geq 38^{\circ}\text{C}$ AND • cough WITH onset within the last 7 d