## Laboratory Investigations for suspected Avian Influenza A(H7) and A(H5) Human Infections in England

## Deciding whether testing is indicated and obtaining samples

- 1. For possible A(H7) and A(H5) infections, the local clinician/microbiologist should follow the respective UKHSA investigation and management algorithms, which reflect advice and definitions issued by the World Health Organization.
- 2 If the patient is considered to be a possible case, the local clinician/microbiologist should contact the Duty microbiologist/ virologist at the nearest regional UKHSA Laboratory. If the UKHSA Laboratory Duty microbiologist/virologist agrees that testing is indicated, the local clinician/microbiologist must also notify the local UKHSA Health Protection Team (HPT).

Individuals at risk of infection with one subtype of avian influenza (AI) are potentially at risk of infection with other avian influenza viruses<sup>1</sup>; the tests required will be informed primarily by a known or suspected exposure (for example, confirmed AI incident in UK) and/or geographical risk.

## Minimum diagnostic sample set

- The following 2 samples should be taken.
- 1. An upper respiratory tract sample (combined nose and throat viral swabs, or nasopharyngeal aspirate).
- 2. If obtainable, a lower respiratory tract sample (sputum, or an endotracheal tube aspirate if intubated).

Appropriate personal protective equipment and infection prevention and control measures should be used when obtaining diagnostic samples (see UKHSA guidance). All samples for influenza testing must be handled at containment level 3 in the local laboratory. Ensure samples prior to sample transfer to a UKHSA avian influenza testing laboratory are not collected into a medium containing an inactivating agent.

## Sample transfer to the public health laboratory

- 1. Once the decision to test has been agreed, the UKHSA Laboratory Duty microbiologist/virologist will liaise with the referring hospital/laboratory to arrange the transportation of the sample(s) to the assigned UKHSA avian influenza testing laboratory. 2 The UKHSA Laboratory microbiologist/virologist will inform the National Reference Laboratory, Respiratory Virus Unit
- (RVU) UKHSA Colindale, that testing is going to be performed (respiratory@ukhsa.gov.uk or telephone 020 8327 6017).
- 3 The HPT will complete the case report form (via Programmed Delivery Unit (PDU) sharepoint) and notify the Colindale Duty Doctor if hospitalised.
- 4 Samples should be sent by Category B transport. The referring laboratory must provide contact details for telephone and hard copy reporting.



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local UKHSA Laboratory Duty microbiologist/virologist. <sup>5</sup> In the event of an indeterminate result, RVU will contact the local UKHSA Laboratory Duty microbiologist/virologist to discuss further actions.