



POSSIBLE CASE

Any person with severe acute respiratory infection requiring admission to hospital:

- with symptoms of fever ($\geq 38^{\circ}\text{C}$) or history of fever, and cough **AND**
- with evidence of pulmonary parenchymal disease (eg clinical or radiological evidence of pneumonia or acute respiratory distress syndrome (ARDS)¹) **AND**
- not explained by any other infection or aetiology²

AND AT LEAST ONE OF

- history of travel to, or residence in an area where infection with MERS-CoV could have been acquired³ in the 14 days before symptom onset **OR**
- close contact⁴ during the **14 days** before onset of illness with a confirmed case of MERS-CoV infection while the case was symptomatic **OR**
- healthcare worker based in ICU caring for patients with severe acute respiratory infection, regardless of history of travel or use of PPE **OR**
- part of a cluster of two or more epidemiologically linked cases within a two-week period requiring ICU admission, regardless of history of travel

¹ Clinicians should additionally be alert to the possibility of atypical presentations in patients who are immunocompromised
² If the patient has an alternative aetiology, but this does not fully explain the presentation and/or clinical course, then the patient should be considered a possible case and tested for MERS-CoV
³ As of 8 June 2015: Bahrain, Jordan, Iraq, Iran, Kingdom of Saudi Arabia, Kuwait, Oman, Qatar, United Arab Emirates, Yemen and South Korea – see [map](#) and [Risk Assessment](#)
⁴ Close contact is defined as:

- prolonged face-to-face contact (>15 minutes) with a **symptomatic confirmed** case in a household or other closed setting **OR**
- healthcare or social care worker who provided direct clinical or personal care or examination of a **symptomatic confirmed** case, or within close vicinity of an aerosol generating procedure **AND** who was not wearing full PPE* at the time



Meets possible case definition

- **Local clinician /microbiologist**
 - clinical risk assessment to be undertaken in conjunction with health protection team and duty microbiologist/virologist at local PHE public health laboratory
 - ensure full PPE* is worn (see [infection control advice](#))
 - notify local PHE [health protection team](#) (HPT) and [local PHE laboratory](#)
 - ensure appropriate samples are collected and sent to both the designated PHE MERS-CoV testing lab and local PHE lab – contact local lab for advice
- **PHE health protection team**
 - if a cluster is suspected, establish if there is an epidemiological link between cases
 - inform PHE Colindale by **email** (respiratory.lead@phe.gov.uk, or contact the duty doctor if out of hours) and enter case details on HPZone (Infection and specific context: MERS-CoV
 - collect possible case dataset ([Form 1](#)) – **email** to PHE Colindale

PHE testing laboratory result **Negative for MERS-CoV**

DISCARD



PHE testing laboratory result **positive for MERS-CoV** (presumptive positive)

- **Clinician/microbiologist**
 - ensure full PPE* is worn (see [infection control advice](#))
- **PHE MERS-CoV testing laboratory**
 - inform local PHE laboratory
 - send residual material **urgently** to PHE reference laboratory (RVU) for confirmatory testing – see [laboratory guidance](#)
- **PHE laboratory**
 - inform local PHE HPT, source hospital/GP, PHE reference laboratory (RVU)
- **PHE HPT**
 - inform PHE Colindale by **email** or contact the duty doctor if out of hours
 - identify and collate [list of close contacts](#)⁴ – **email** to PHE Colindale

Reference laboratory result **Negative for MERS-CoV**

DISCARD



Reference laboratory result **positive for MERS-CoV = confirmed case**

- BASELINE**
- **Clinician/microbiologist**
 - collect appropriate baseline samples and send to PHE reference laboratory (RVU) – see [laboratory guidance](#)
 - **PHE HPT**
 - complete confirmed case initial form ([Form 1a](#)) – **email** to PHE Colindale
- ADDITIONALLY FOLLOW [PHE MERS-CoV CLOSE CONTACT ALGORITHM](#)**

* Full personal protective equipment (PPE): correctly fitted high filtration respirator (FFP3), gown, gloves and eye protection



- FOLLOW UP**
- **Clinician/microbiologist (RVU)**
 - ensure appropriate sequential follow-up samples are taken after discussion with the PHE Colindale incident control team, and sent to PHE reference laboratory. See [laboratory guidance](#)
 - **PHE HPT**
 - complete confirmed case follow-up [Form 1b](#) **14-21 days** since Form 1a completed – **email** to PHE Colindale