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## Novel Coronavirus 2019 (COVID-19)

# National Guidelines for Public Health management of contacts of cases of COVID-19

V 9.1. 16.08.2021

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*This document summarises recommendations for contact management of cases of COVID-19. It is based on the current knowledge regarding COVID-19 and experiences with SARS-CoV and MERS-CoV. This guidance is suitable for a delay phase, when an increasing number of cases and their contacts have been identified in Ireland. It may change if and when we move to a mitigation phase.*

*Readers should not rely solely on the information contained within these guidelines. Guideline information is not intended to be a substitute for advice from other relevant sources including, but not limited to, the advice from a health professional. Clinical judgement and discretion will be required in the interpretation and application of these guidelines.*

*This guidance is under constant review based upon emerging evidence at national and international levels and national policy decisions.*

*These guidelines are aligned with the principles of Art 3 IHR.*

Version	Date	Changes from previous version	Drafted by
V.8.	02.04.2020	<ul style="list-style-type: none"> <li>• Change to infectious period for contact tracing purposes to 48 hours before symptom onset.</li> <li>• Change in contact management of probable, contact tracing to initiate following referral for testing.</li> <li>• Change in advice for close contacts to not leave the house unless absolutely necessary.</li> <li>• Change in information sources for close and casual contacts.</li> <li>• Change in advice to contacts regarding contacting their GP with symptoms instead of Public Health.</li> <li>• Note on current Government advice regarding physical distancing measures.</li> </ul>	HPSC
v.8.1	22.04.2020	<ul style="list-style-type: none"> <li>• Added tracing of asymptomatic cases</li> </ul>	HPSC
V.8.2	24.04.2020	<ul style="list-style-type: none"> <li>• Change to start period of contact tracing for asymptomatic cases</li> </ul>	HPSC
V8.3	14.05.2020	<ul style="list-style-type: none"> <li>• As per NPHET recommendation of 14/05/2020, all close contacts of a confirmed case should have a COVID test at DAY 0 and DAY 7 after last exposure to a confirmed case</li> <li>• As per NPHET recommendations of 14/05/2020, all close contacts (not just household contacts) should restrict their movements for 14 days after last exposure to a confirmed case</li> </ul>	HPSC
V8.4	20/05/2020	<ul style="list-style-type: none"> <li>• Adjusted the summary of changes table to include the following NPHET recommendation:</li> </ul> <p>As per NPHET recommendations on 14th May 2020, it is further recommended that where a test is taken on a suspected case the tester should request that the suspect case inform their household contacts and any other close contacts without delay and ask them to restrict their movements (i.e. stay at home) until the outcome of the test is known.</p>	HPSC
V8.5	18/06/2020	<ul style="list-style-type: none"> <li>• Removal of recommendation to commence contact tracing on suspected cases.</li> <li>• Removal of paragraph re testing in LTCF</li> <li>• Link to Government road map instead of specific details of phases in this document.</li> </ul>	HPSC
V8.6	19/10/2020	<ul style="list-style-type: none"> <li>• Change in infectious period for cases in the community from 14 days to 10 days</li> <li>• Link to Resilience and Recovery Plan instead of Government road map</li> </ul>	HPSC
V8.7	10.02.2021	<ul style="list-style-type: none"> <li>• Change in timing of testing of close contacts to day 0 and day 10, with ending of period of restricted</li> </ul>	

		movements if “not detected” result from day 10 test and remain asymptomatic	
V8.8		<ul style="list-style-type: none"> <li>• Term “vulnerable individuals” has been replaced by “people at higher risk”</li> <li>• Household contacts of confirmed cases are advised to wear a surgical mask</li> </ul>	
V8.9		<ul style="list-style-type: none"> <li>• Added caveat that guidance does not apply to variants of concern</li> </ul>	HPSC
V8.10	08/07/2021	<ul style="list-style-type: none"> <li>• Updated to reflect changes in relation to contact tracing for VOCs</li> <li>• Updated to reflect that the Delta variant is now predominant in Ireland. Added that Delta remains a VOC but as occurred with Alpha, usual contact tracing will apply for cases of Delta variant (i.e. as are currently implemented for non-VOC or Alpha cases.</li> </ul>	
V9.0	05/08/2021	<ul style="list-style-type: none"> <li>• Updated to reflect contact tracing for VOCs and non-VOCs</li> <li>• Updated to reflect the impact of vaccination on contact tracing</li> <li>• Updated to reflect international travellers and flight contact tracing</li> </ul>	
V9.1	16/08/2021	<ul style="list-style-type: none"> <li>• Document restructured</li> </ul>	

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## Preface

These guidelines have been updated to reflect the evolving situation in relation to the COVID-19 pandemic. This document outlines the measures that should be adopted for contact tracing of all COVID-19 cases. Delta remains a variant of concern and is now the predominant variant in Ireland. In this context, additional public health measures are now no longer required for probable or confirmed delta cases. Therefore, the contact tracing processes that are implemented for non-VOC and Alpha cases also apply to cases of the Delta variant.

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## 1.0 Summary of key points

- Advice for close contacts varies depending on a number of factors including setting, previous infection, vaccination status, and whether the contact(s) have been exposed to a confirmed case who has travelled from a [designated state](#).
- All **symptomatic close contacts** should contact their GP by telephone without delay and be advised to [self-isolate](#) (including not going to work) for 10 full days and are managed as per the current recommendations for suspected COVID-19 cases, with urgent testing for COVID-19 infection undertaken.
- **Asymptomatic close contacts** who are not fully vaccinated and who do not have a history of prior infection in the previous 9 months must restrict their movements pending the outcome of testing. They should be advised to get tested at day 0 and day 10 and advised to continue to [restrict their movements](#) until they receive a “not detected” test result from the Day 10 test. The Day 10 test is to be performed 10 full days after that last contact (where day 1 begins the day after the close contact’s last contact with the case).
- If either (day 0 or day 10) test is positive, the close contact becomes a case and must self-isolate.
- In the absence of a Day 10 test, close contacts who are not fully vaccinated must restrict their movements for **14 days**.
- For adult and child cases for whom it is not feasible to self-isolate (e.g. children under 13 years old or adults with care needs), all household contacts with ongoing unprotected exposure to the case should restrict their movements for 17 days from the onset of symptoms in the first case or from the date of the test if the case was asymptomatic. This is regardless of whether further cases are identified in the household.
- In all instances, close contacts should be reminded about the importance of good respiratory etiquette and hand hygiene practice and asked to adhere to the general public health measures and physical distancing advice that the Government of Ireland has issued for the general public.
- The period of self-isolation for confirmed cases of non-VOCs and Delta variant is **10 days**
- Delta remains a variant of concern, but as it is now predominant in Ireland, additional public health measures are no longer required to be applied to probable or confirmed delta cases
- The guidance for contact tracing asymptomatic close contacts identified as a result of air-travel varies and depends on whether the passenger obtained their EU Digital COVID Cert (DCC) as a result of being (i) fully vaccinated (completed schedule) with an EMA approved vaccine, (ii) confirmed laboratory diagnosis of COVID-19 or (iii) a non-detected PCR test prior to and within 72 hours of travelling.

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## 2.0 Purpose

The purpose of this document is to provide public health guidance for contact management of cases of COVID-19. The purpose of identifying and managing the contacts of COVID-19 cases is to support early diagnosis and to interrupt onward transmission, through the rapid identification and management of secondary cases that may arise after transmission from primary cases.

## 3.0 Scope

This document provides information for contact management of all COVID-19 strains including the Alpha and Delta variants and for other Variants of Concern (VOCs) (i.e. Beta and Gamma).

## 4.0 Information on COVID-19

COVID-19 is an illness, identified in late 2019, caused by a virus called SARS-CoV-2. Internationally and in Ireland we continue to learn about how easily the virus spreads from person to person and how to control it.

It can take up to 14 days for symptoms of COVID-19 to show. Infection can spread from people before they develop symptoms. Some people with infection develop no symptoms, or have symptoms that are so mild that they take little notice of them, but they can still spread infection.

Prior to the development of effective vaccines the primary way to prevent the spread of the SARS-CoV-2 virus was by implementing a series of non-pharmaceutical interventions (NPIs), such as physical distancing, wearing of a face covering and frequent hand hygiene. Increasingly the importance of improving ventilation in reducing transmission, especially in closed environments, has been understood and implemented either through natural ventilation (i.e. opening windows and external doors) or by mechanical means (e.g. central air-conditioning unit).

Effective vaccines against COVID-19 are now available and a robust vaccination programme is underway in Ireland. This is an additional and important intervention to prevent the spread of the virus. However, precautions to prevent introduction and spread of the virus are still required even in the context of community vaccination because although the COVID-19 vaccines have been proven to reduce the spread of COVID-19 and reduce the risk of severe disease and or hospitalisation, they do not prevent all infection. Additionally, there is now some concern that the vaccines may be less effective against some virus variants.

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Viruses constantly change and mutate due to evolution and adaptation processes. As a consequence, the emergence of new variants is to be expected. This could result in an increase in transmissibility, or virulence, or a decrease in the effectiveness of vaccines, treatments, diagnostic assays or other public health measures.

There were four COVID -19 virus variants (Alpha (B.1.1.7), Beta (B.1. 351 (501Y.V2), Gamma (variant P.1 (B.1.1.28.1)) and Delta (B.1.6.177.2 sub lineage) that have caused concern due to mutations that have led to increased transmissibility and deteriorating epidemiological situations. The Delta strain of SARS-CoV-2 is now dominant in Ireland and although Delta remains a Variant of Concern (VOC), standard contact tracing processes now apply for cases of Delta variant in the Irish context. Additional contact tracing measures are no longer applied to Delta cases but, these additional measures should continue to be applied for Beta (B.1. 351 (501Y.V2), Gamma (variant P.1 (B.1.1.28.1)) variants of concern.

As there remain gaps in the understanding of infectivity of COVID-19 cases and transmission modes, the definition of contacts and their public health management is based on similar coronaviruses such as SARS-CoV and MERS-CoV.

#### ***4.1 Transmission of COVID-19***

The virus is spread mainly through the air from the respiratory tract (nose or mouth) of a person with the infection. The virus can reach the respiratory tract mucosa (eyes, nose and mouth) of a susceptible person in two ways:

1. Travelling directly through the air to the respiratory tract or
2. Indirectly as a result of contamination of hands or other surfaces and subsequent transfer to the respiratory mucosa.

The risk of transmission through the air is dependent on a number of factors and include, how much virus is being shed by the infectious person, how close the susceptible person is to the infectious person, how forcefully the infectious person is scattering particles (for example, when the infected person coughs, sneezes, talks, sings, shouts or laughs) and what barriers are in place (e.g. masks).

There is evidence that COVID-19 outbreaks are more commonly associated with crowded indoor spaces, and that poor ventilation may increase the risk of transmission in such settings by facilitating the spread of liquid respiratory particles over longer distances.



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## 4.2 Definition of contact tracing

Contact tracing is the process of identifying, assessing, and managing people who have been exposed to a disease to prevent onward transmission. When systematically applied, contact tracing will break the chains of transmission of COVID-19 and is an essential public health tool for controlling the virus (WHO, 2020).

Contact needs to have occurred during the infectious period. For the purposes of this guidance, given the current knowledge about COVID-19 transmission, the infectious period for contact tracing purposes is defined as from 48 hours before symptom onset in the case, until the case is classified as no longer infectious (usually 10 full days from symptom onset AND 5 days fever free for cases in the community; 14 days from symptom onset AND 5 days fever free for residents in residential care facilities or cases who are hospitalized). The COVID-19 tests referred to in this document are Reverse Transcription Polymerase Chain Reaction (RT-PCR).

For the purpose of this guidance, contact tracing of truly asymptomatic cases in this context should be initiated from 24 hours prior to date of diagnosis (i.e. date of swab being taken). The infectious period for asymptomatic cases is 10 days from the positive test result date.

### **Close contact definition**

- Any individual who has had face-to-face contact with a COVID-19 case within two metres for more than a total of 15 minutes over a 24-h period (even if not consecutive)
- Household contacts defined as living or sleeping in the same home, individuals in shared accommodation sharing kitchen or bathroom facilities and sexual partners.
- Healthcare workers, including laboratory workers, who have not worn appropriate PPE or had a breach in PPE during the following exposures to the case:
  - Direct contact with the case (as defined above), their body fluids or their laboratory specimen
  - Present in the same room when an aerosol generating procedure is undertaken on the case.
- Passengers on an aircraft sitting within two seats (in any direction) of the case, travel companions or persons providing care, and crew members serving in the section of the aircraft where the index case was seated.<sup>#</sup> If there is more than one case and they are sitting together then contact tracing is extended to two rows.
- For close contacts who have shared a closed environment with a case for longer than two hours, a risk assessment should be undertaken. This risk assessment may vary depending on the setting, the size of the room, ventilation and the distance from the case.

*<sup>#</sup> If severity of symptoms or movement of the case indicate more extensive exposure, passengers seated in the entire section or all passengers on the aircraft may be considered close contacts.*

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### **Casual contact definition**

- Healthcare workers, not including laboratory workers, who have taken recommended infection control precautions, including the use of appropriate PPE, during the following exposures to the case:
  - Direct contact with the case (as defined above) or their body fluids
  - Present in the same room when an aerosol generating procedure is undertaken on the case.
- Any individual who has shared a closed space with a case for less than two hours.
- Passengers on an aircraft sitting beyond two seats (in any direction) of a case.
- Any individual who has shared a closed space with a case for longer than two hours, but following risk assessment, does not meet the definition of a close contact.

## **5.0 Management of casual contacts**

Those identified as casual contacts should:

- be advised about their risk and the symptoms of COVID-19 and directed to further information on the HSE website.
- be advised to self-isolate if they develop any symptoms of COVID-19 and ring their GP without delay.
- be reminded about the importance of good respiratory hygiene, cough etiquette and hand hygiene practice and asked to adhere to the general public health measures and physical distancing advice that the Government of Ireland has issued for the general public.

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## 6.0 Identification and initial management of close contacts of COVID-19

The objective of contact tracing is to contain the disease and prevent secondary spread by identifying positive cases and their close contacts as soon as possible.

### *Identification of close contacts:*

- Community based close contacts are identified and monitored by the Contact Management Programme (CMP) and public health as appropriate, for example in complex situations.
- Healthcare workers with an occupational exposure in Ireland, including laboratory staff, are identified and monitored by Occupational Medicine. Please see [Occupational Health](#) guidance for further information.
- Hospital in-patient close contacts are identified and monitored by infection prevention and control (IPC) and clinical microbiology while receiving in-patient care and by Public Health following discharge.
- For guidance relating to [education](#), [childcare](#) and other non-healthcare settings, please see [here](#). For all other guidance relating to healthcare settings, please see [here](#).

### *For all close contacts:*

- Establish whether the close contact is symptomatic or not
- Determine whether the close contact is fully vaccinated, partially vaccinated or unvaccinated
- Determine whether the close contact has had laboratory confirmed COVID19 in the last 9 months
- Determine whether the person they were in contact with is:
  - A person under investigation (PUI) **or**
  - A probable or confirmed variant of concern (VOC), excluding delta and alpha variants for which standard contact tracing management processes apply

## 6.1 Management of all symptomatic close contacts regardless of vaccination status or history of COVID-19 infection within the previous 9 months

For all contacts, if [symptoms](#) consistent with COVID-19 develop within the first 14 days following the last contact regardless of the close contacts vaccination status or prior COVID-19 infection, the individual should:

- contact their GP by telephone without delay.

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- be advised to [self-isolate](#) (including not going to work) for 10 full days and be managed as per the current recommendations for suspected COVID-19 cases, with urgent testing for COVID-19 infection undertaken.
  - be advised to continue to self-isolate pending the outcome of testing
  - be reminded about the importance of good respiratory etiquette and hand hygiene practice and asked to adhere to the general public health measures and physical distancing advice that the Government of Ireland has issued for the general public.
  - If COVID-19 is not detected by RT-PCR, symptomatic contacts will still need to be monitored for 14 days after their last contact with a case and may require re-testing.

## 6.2 Management of asymptomatic close contacts excluding those fully vaccinated and those who had COVID-19 within the previous 9 months

- All persons identified as having had contact with a confirmed case during the infectious period even if they are asymptomatic should be assessed to see if they should be classified as a close or casual contact.
- Contact should be made with the close contact(s) on a regular basis to ask about development of relevant symptoms until receipt of a “not detected” result from a Day 10 test, or, for 14 days after the last possible exposure to a case in the absence of a Day 10 test. The Day 10 test is to be performed 10 full days after that last contact (where day 1 begins the day after the close contact’s last contact with the case). If the Day 0 and 10 tests are too close together only one test is necessary.
  - The lead team undertaking the contact management can make an operational decision as how best to manage this, such as use of telephone calls, text messages or emails on a regular basis. The Day 10 test is to be performed 10 full days after that last contact
- Close contacts should be advised about their risk, and the [symptoms](#) of COVID-19 and provided with COVID-19 Close Contact information which is found [here](#).
- Close contacts must restrict their movements pending the outcome of testing.
- If the Day 0 test is positive, there is no further test required – the contact becomes a case.
- Close contacts may end the period of [restricted movements](#) on receipt of a “not detected” test result from the Day 10 test, so long as they remain asymptomatic.
- Close contacts should be reminded about the importance of good respiratory etiquette and hand hygiene practice and asked to adhere to the general public health measures and physical distancing advice that the Government of Ireland has issued for the general public.
- Household contacts should be provided with information on restricting movement found [here](#).

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- Household contacts of confirmed cases are advised to wear a surgical mask.
  - Elderly close contacts, close contacts who are immunocompromised or those taking anti-pyretic analgesia may not present with fever and the importance of reporting other symptoms should be highlighted to them.
  - All children should be included for testing if they are close contacts, but whether testing is undertaken will be determined by Public Health risk assessment in individual cases.
  - For adult and child cases for whom it is not feasible to self-isolate (e.g. children under 13 years old or adults with care needs), all household contacts with ongoing unprotected exposure to the case should restrict their movements for 17 days from the onset of symptoms of the first case or from the date of the test if the case was asymptomatic. This is regardless of whether further cases are identified in the household.

### 6.3 Management of asymptomatic close contacts who are fully vaccinated or who had COVID-19 infection within the previous 9 months

The evidence suggests that if close contacts are fully vaccinated or have had laboratory confirmed COVID-19 infection in the previous nine months, and are asymptomatic, they do not need to restrict their movements or undergo COVID-19 testing. Please see information for close contacts who are [vaccinated](#) or [partially vaccinated](#). This is supported by a review of the evidence regarding the [duration of protective immunity](#) (protection from reinfection) following SARS-CoV-2 that was conducted by the Health Information and Quality Authority (HIQA).

#### 1. Persons who are fully vaccinated

include those who are:

- a. 7 days after receipt of the **second** Pfizer-BioNTech dose (two dose vaccination course)
- b. 14 days after receipt of the **second** Moderna dose (two dose vaccination course)
- c. 14 days after receipt of the Janssen dose (**one dose vaccination course**)
- d. 15 days after receipt of the **second** AstraZeneca dose (two dose vaccination course)

**OR**

#### 2. Have had confirmed COVID-19 infection in the previous nine months

**AND**

#### 3. Are asymptomatic and who are identified as close contacts of a case of COVID-19,

**NEED NOT**

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**(i) Restrict their movements or**

**(ii) be tested**

unless specific circumstances apply as follows:

1. Known contact with a case of COVID-19 in which the case is a Person Under Investigation, probable or confirmed variant of concern **excluding Alpha and Delta**. In this situation the close contact should be managed as a close contact of a VOC.
2. If the person's immune system response to vaccination could be compromised due to either a known medical condition or being on immunosuppressive treatment, they should be treated as a close contact - offered two tests (on day 0 and day 10) and advised to restrict their movements. If there is any uncertainty as to whether the close contact has a medical condition or takes a treatment that would result in a sub-optimal response to vaccination, they should also be advised to restrict their movements and contact their treating physician who can advise if these recommendations apply to them. Please see [Chapter 5a – COVID-19](#) for a list of medical conditions and immunosuppressive treatments which are associated with sub-optimal response to vaccines from the Immunisation Guidelines for Ireland.
3. A public health or occupational health risk assessment has identified other specific grounds for concern
4. The close contact develops symptoms of COVID-19, in which case they need to immediately [self-isolate](#) and be referred for one test. If the test result is negative they can discontinue self-isolation once they are symptom free for 48 hours.

## 6.4 Management of close contacts of COVID-19 Variants of Concern (VOCs)

The approach to management of all cases of COVID-19 is now broadly the same, whether they are due to VOC or not (see section 6.0). Although additional contact tracing measures are no longer applied to Alpha and Delta cases, additional contact tracing measures should continue to be applied for Beta (B.1. 351 (501Y.V2)), Gamma (variant P.1 (B.1.1.28.1)) variants of concern and any future identified VOCs.

The additional contact tracing measures required for Beta and Gamma VOC are as follows:

- Source investigation should be undertaken for any Beta or Gamma case detected as directed by the relevant Department of Public Health.

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- There should be a focus on supporting those who need to [self-isolate](#) or [restrict their movements](#) to aid compliance with recommended public health measures for Beta and Gamma cases
  - Following a risk assessment, an outbreak control team may be established where appropriate

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## 7.0 Management of close contacts of COVID-19 cases identified during air-travel

### 7.1 Management of cases on flights

- Contact tracing should be undertaken for a confirmed case who was on a flight during their infectious period.
- All COVID-19 cases on flights, whether VOC or non-VOC are managed the same i.e., contact trace passengers within two seats (in any direction) of the index case. In circumstances where there are three or more confirmed cases, the Regional Public Health Department(s) will undertake a risk assessment for Public Health Action. (e.g. contact trace two rows in front of and behind the index case(s) if seated together or contact trace the whole flight).

### 7.2 Management of close contacts on flights

- The Contact Management Programme is responsible for coordinating the contact tracing of COVID-19 cases identified on flights.
- The airline is advised by the Public Health Data Processing unit, working on behalf of the Department of Public Health, of the seat number where the passenger was sitting and if known to be a PUI or VOC, they are asked to return a short crew survey for risk assessment by Public Health. In most instances, however, the airline occupational health team, rather than public health, deals with the contact tracing of the crew.
- If international contact tracing is required, this work is carried out by HPSC, Ireland's IHR National Focal Point and EWRS National Contact point.
- The EU Digital COVID Certificate (DCC) was implemented in Ireland on the 19<sup>th</sup> July 2021. The guidance for people travelling into Ireland is available on [www.gov.ie](http://www.gov.ie). As well as having implications for people travelling into Ireland and the restrictions or not on their movements and testing, the EU DCC policy also has implications for the management and contact tracing of cases that travel into Ireland on flights from other countries. The guidance for contact tracing asymptomatic close contacts identified as a result of air-travel varies and depends on whether the passenger obtained their EU DCC as a result of being:
  - Fully vaccinated (completed schedule) with an EMA approved vaccine.
  - Confirmed laboratory diagnosis of COVID19.
  - A non-detected PCR test prior to and within 72 hours of travelling.



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### 7.2.1 Management of symptomatic close contacts identified during air-travel

Please see section 6.1 above for information on managing all symptomatic close contacts

### 7.2.2 Management of asymptomatic close contacts identified during air-travel excluding those who are fully vaccinated and those who had COVID-19 within the previous 9 months

- Asymptomatic close contacts do not need to restrict their movements or get tested for COVID-19 if they are fully vaccinated or have had previous confirmed COVID-19 infection within the previous nine months.
- Asymptomatic close contacts who have had an RT-PCR “not detected” test 72-h prior to their flight need to restrict their movements and be referred for testing until receipt of a “not detected” result from a Day 10 test, or for 14 days after the last possible exposure to a case in the absence of a Day 10 test. The Day 10 test is to be performed 10 full days after the last contact (where day 1 begins the day after the close contact’s last contact with the case). If the Day 0 and 10 tests are too close together only 1 test is necessary.
- Contacts should be reminded about the importance of good respiratory etiquette and hand hygiene practice and asked to adhere to the general public health measures and physical distancing advice that the Government of Ireland has issued for the general public.

Please see [here](#) for contact tracing flow diagram pathway.

### 7.3 Management of close contacts travelling from designated states

Please see here for up to date information regarding [designated states](#)

- Passengers arriving in Ireland from designated states who are fully vaccinated (i.e., completed full vaccination schedule with an EMA vaccine) can quarantine at home for up to 14 days. If fully vaccinated passengers have a non-detected RT PCR test at day 5 they no longer need to quarantine.
- Passengers arriving in Ireland from designated states who are not fully vaccinated will be required to go into hotel quarantine for up to 14 days. They will be advised to get tested at day 0 and day 10.
  - If they have a “not-detected” RT-PCR test at day 0 and at 10, they can exit mandatory hotel quarantine.
  - If they do not have a test at day 0 and day 10 they should remain in mandatory hotel quarantine for the full 14 days.