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## National protocol for COVID-19 Vaccine Moderna

Reference no: COVID-19 Vaccine Moderna protocol

Version no: v01.00

Valid from: 8 April 2021

Review date: 1 October 2021

Expiry date: 31 March 2022

This protocol is for the administration of COVID-19 Vaccine Moderna to individuals in accordance with the national COVID-19 vaccination programme.

This protocol is for the administration of COVID-19 Vaccine Moderna by appropriately trained persons in accordance with [regulation 247A](https://www.legislation.gov.uk/uksi/2020/1125/regulation/14/made) of the [Human Medicines Regulations 2012](https://www.legislation.gov.uk/uksi/2012/1916/contents) (HMR 2012), inserted by [The Human Medicines (Coronavirus and Influenza) (Amendment) Regulations 2020](https://www.legislation.gov.uk/uksi/2020/1125/contents/made)

**Public Health England (PHE) has developed this protocol for authorisation by the Secretary of State for Health and Social Care to facilitate the delivery of the national COVID-19 vaccination programme commissioned by NHS England and NHS Improvement.**

This protocol may be followed wholly from assessment through to post-vaccination by an appropriately registered healthcare professional (see [Characteristics of staff](#_Characteristics_of_staff)). Alternatively, multiple persons may undertake stages in the vaccination pathway in accordance with this protocol. Where multiple person models are used, the service provider/contractor must ensure that all elements of the protocol are complied with, in the provision of vaccination to each individual. The provider/contractor is responsible for ensuring that persons are trained and competent to safely deliver the activity they are employed to provide under this protocol. As a minimum, competence requirements stipulated in the protocol under [Characteristics of staff](#_Characteristics_of_staff) must be adhered to.

The provider/contractor and registered healthcare professionals are responsible for ensuring that they have adequate and appropriate indemnity cover.

Persons must be authorised by name to work under this protocol. They must ensure they meet the staff characteristics for the activity they are undertaking, make a declaration of competence and be authorised in writing. This can be done by completing [Section 4](#PractitionerAuthorisationSheet) of this protocol or maintaining an equivalent electronic record.

A clinical supervisor[[1]](#footnote-2), who must be a registered doctor, nurse or pharmacist trained and competent in all aspects of the protocol, must be present and take overall responsibility for provision of vaccination under the protocol at all times and be identifiable to service users. The drawing up of the vaccine has its own supervision requirements in accordance with [Part 1](https://www.legislation.gov.uk/uksi/2012/1916/part/1) of the HMR 2012 and will need to be done by, or under the supervision of, a registered doctor, nurse or pharmacist. If a vaccination service is being provided at scale, the clinical supervisor should only take on specific supervision requirements in relation to the drawing up of the vaccine if this can be done safely alongside their overarching role. Any time the protocol is used, the name of the clinical supervisor taking responsibility and all the people working under different stages of the protocol must be recorded for the session. The clinical supervisor has ultimate responsibility for safe care being provided under the terms of the protocol. Staff working under the protocol may be supported by additional registered healthcare professionals, but the clinical supervisor retains overall responsibility. Staff working to the protocol must understand who the clinical supervisor for their practice at any time is and can only proceed with their authority. The clinical supervisor may withdraw this authority for all members of staff or individual members of staff at any time and has authority to stop and start service provision under the protocol as necessary. Every member of staff has a responsibility to, and should, report immediately to the clinical supervisor any concerns they have about working under the protocol in general or about a specific individual, process, issue or event.

Operation under this protocol is the responsibility of service providers/contractors. Provider organisations/contractors using this protocol should retain copies, along with the details of those authorised to work under it, for 8 years after the protocol expires.

Persons must check that they are using the current version of this protocol and current versions of any documents this protocol refers to. Amendments may become necessary prior to the published expiry date. Current versions of national protocols for COVID-19 vaccines, authorised by the Secretary of State in accordance with regulation 247A of the HMR 2012, can be found via:

[https://www.gov.uk/government/collections/covid-19-vaccination-programme](https://eur01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.gov.uk%2Fgovernment%2Fcollections%2Fcovid-19-vaccination-programme&data=04%7C01%7Cbeth.graham%40phe.gov.uk%7C8a53f9787c3a47e478c008d892d99d6e%7Cee4e14994a354b2ead475f3cf9de8666%7C0%7C0%7C637420810633032773%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=2LUZ14PEOdm7T093K6UJ3bSiHh%2Bhsg0DYXLSvnmrjYE%3D&reserved=0)

Any concerns regarding the content of this protocol should be addressed to: [immunisation@phe.gov.uk](mailto:immunisation@phe.gov.uk)

# **Change history**

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| **Version number** | **Change details** | **Date** |
| V01.00 | New protocol for COVID-19 Vaccine Moderna. | 1 April 2021 |

1. **Ministerial authorisation**

This protocol is not legally valid, in accordance with [regulation 247A](https://www.legislation.gov.uk/uksi/2020/1125/regulation/14/made) of the [HMR 2012](https://www.legislation.gov.uk/uksi/2012/1916/contents), inserted by the [Human Medicines (Coronavirus and Influenza) (Amendment) Regulations 2020](https://www.legislation.gov.uk/uksi/2020/1125/contents/made), until it is approved by the Secretary of State for Health and Social Care.

On 8 April 2021 the Secretary of State for Health and Social Care, Matt Hancock, approved this protocol in accordance with [regulation 247A](https://www.legislation.gov.uk/uksi/2020/1125/regulation/14/made) of HMR 2012.

Any provider/contractor administering COVID-19 Vaccine Moderna under this protocol must work strictly within the terms of this protocol and contractual arrangements with the commissioner, for the delivery of the national COVID-19 vaccination programme.

Assembly, final preparation and administration of vaccines supplied and administered under this protocol must be subject to NHS governance arrangements and standard operating procedures that ensure that the safety, quality or efficacy of the product is not compromised. The assembly, final preparation and administration of the vaccines should also be in accordance with the manufacturer’s instructions in the product’s and UK Summary of Product Characteristics ([SPC](https://www.gov.uk/government/publications/regulatory-approval-of-covid-19-vaccine-moderna)) and in accordance with official national recommendations.

Note: The national COVID-19 vaccination programme may also be provided under patient group direction or on a patient specific basis (that is, by or on the directions of an appropriate independent prescriber, such as under a patient specific direction (PSD)). Supply and administration in these instances should be in accordance with contractual arrangements with the commissioner for the delivery of the national COVID-19 vaccination programme and are not related to this protocol.

#### Characteristics of staff

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| Classes of persons permitted to administer medicinal products under this protocol |
| This protocol may be followed wholly from assessment through to post-vaccination by an appropriately registered healthcare professional (see [Table 2](#Table2)). Alternatively, multiple persons may undertake stages in the vaccination pathway in accordance with this protocol. Where multiple person models are used, the service provider/contractor must ensure that all elements of the protocol are complied with, in the provision of vaccination to each individual. The service provider/contractor is responsible for ensuring that there is a clinical supervisor present at all times and that persons are trained and competent to safely deliver the activity they are employed to provide under this protocol. As a minimum, competence requirements stipulated in the protocol must be adhered to.  The provider/contractor and registered healthcare professionals are responsible for ensuring that they have adequate and appropriate indemnity cover.  This protocol is separated into operational stages of activity as outlined in Table 1.  The clinical supervisor1 must be a registered doctor, nurse or pharmacist trained and competent in all aspects of the protocol and provide clinical supervision, see [page 1](#Page1ClinicalSupervisor), for the overall provision of clinical care provided under the legal authority of the protocol.  **Table 1: Operational stages of activity under this protocol**   |  |  |  | | --- | --- | --- | | Stage 1 | 1. Assessment of the individual presenting for vaccination 2. Provide information and obtain informed consent[[2]](#footnote-3) 3. Provide advice to the individual | Registered Healthcare Professionals Only | | Stage 2 | * Vaccine Preparation | Registered or non-registered persons | | Stage 3 | * Vaccine Administration | Registered or non-registered persons | | Stage 4 | * Record Keeping | Registered or non-registered persons |   Persons must only work under this protocol where they are competent to do so.  Non-professionally qualified persons operating under this protocol must be adequately supervised by experienced registered healthcare professionals.  Protocols do not remove inherent professional obligations or accountability. All persons operating under this protocol must work within their terms of employment at all times; registered healthcare professionals must also abide by their professional code of conduct.  To undertake the assigned stage(s) of activity under this protocol, persons working to this protocol must meet the criteria specified in [Table 2](#Table2) (see below).  **Table 2: Protocol stages and required characteristics of persons working under it**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Persons working to this protocol must meet the following criteria, as applicable to undertake their assigned stage(s) of activity under this protocol:** | **Stage 1** | **Stage 2** | **Stage 3** | **Stage 4** | | must be authorised by name as an approved person under the current terms of this protocol before working to it, see [Section 4](#PractitionerAuthorisationSheet) | Y | Y | Y | Y | | must be competent to assess individuals for suitability for vaccination, identify any contraindications or precautions, discuss issues related to vaccination and obtain informed consent1 and must be an appropriately qualified prescriber or one of the following registered professionals who can operate under a PGD or as an occupational health vaccinator in accordance with HMR 2012:   * nurses, nursing associates and midwives currently registered with the Nursing and Midwifery Council (NMC) * pharmacists currently registered with the General Pharmaceutical Council (GPhC) * chiropodists/podiatrists, dieticians, occupational therapists, operating department practitioners, orthoptists, orthotists/prosthetists, paramedics, physiotherapists, radiographers and speech and language therapists currently registered with the Health and Care Professions Council (HCPC) * dental hygienists and dental therapists registered with the General Dental Council * optometrists registered with the General Optical Council. | Y | N | N | N | | must be a doctor, nurse or pharmacist or a person who is under the supervision of, a doctor, nurse or pharmacist (see [Page 1](#Page1ClinicalSupervisor)) | N | Y | N | N | | must be competent in the handling of the vaccine product and use of the correct technique for drawing up the correct dose | N | Y | N | N | | must be familiar with the vaccine product and alert to any changes in the manufacturers summary of product characteristics ([SPC](https://www.gov.uk/government/publications/regulatory-approval-of-covid-19-vaccine-moderna)) and familiar with the national recommendations for the use of this vaccine | Y | Y | Y | N | | must be familiar with, and alert to changes in relevant chapters of Immunisation Against Infectious Disease: the [Green Book](https://www.gov.uk/government/collections/immunisation-against-infectious-disease-the-green-book) | Y | Y | Y | N | | must be familiar with, and alert to changes in the relevant standard operating procedures (SOPs) and commissioning arrangements for the national COVID-19 vaccination programme | Y | Y | Y | N | | must have undertaken training appropriate to this protocol and relevant to their role, as required by local policy and national standard operating procedures and in line with the [Training recommendations for COVID-19 vaccinators](https://www.gov.uk/government/publications/covid-19-vaccinator-training-recommendations/training-recommendations-for-covid-19-vaccinators) | Y | Y | Y | N | | must have completed the [national covid-19 vaccination e-learning programme](https://www.e-lfh.org.uk/programmes/covid-19-vaccination/), including the relevant vaccine specific session, and/or locally-provided COVID-19 vaccine training | Y | Y | Y | N | | must be competent in the correct handling and storage of vaccines and management of the cold chain if receiving, responsible for, or handling the vaccine | N | Y | Y | N | | must be competent in intramuscular injection technique if they are administering the vaccine | N | N | Y | N | | must be competent in the recognition and management of anaphylaxis, have completed basic life support training and able to respond appropriately to immediate adverse reactions | Y | N | Y | N | | must have access to the protocol and relevant [COVID-19 vaccination programme](https://www.gov.uk/government/collections/covid-19-vaccination-programme) online resources such as the [Green Book](https://www.gov.uk/government/collections/immunisation-against-infectious-disease-the-green-book), particularly [Chapter 14a](https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a), and the PHE [COVID-19 vaccination programme: Information for healthcare practitioners](https://www.gov.uk/government/publications/covid-19-vaccination-programme-guidance-for-healthcare-practitioners) document | Y | Y | Y | N | | must understand the importance of making sure vaccine information is recorded on the relevant data system, meeting relevant competencies of the [COVID-19 vaccinator competency assessment tool](https://www.gov.uk/government/publications/covid-19-vaccinator-competency-assessment-tool) | Y | Y | Y | Y | | must have been signed off as competent using the [COVID-19 vaccinator competency assessment tool](https://www.gov.uk/government/publications/covid-19-vaccinator-competency-assessment-tool) if new to or returning to immunisation after a prolonged period (more than 12 months), or have used the tool for self-assessment if an experienced vaccinator (vaccinating within past 12 months) | Y | Y | Y | Y | | should fulfil any additional requirements defined by local or national policy | Y | Y | Y | Y | |  |  |  |  |  | |

**STAGE 1: Assessment of the individual presenting for vaccination**

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| **ACTIVITY STAGE 1a:** | **Assess the individual presenting for vaccination against the inclusion and exclusion criteria below. If they are not eligible for vaccination or need to return at a later date, advise them accordingly.** |
| **Clinical condition or situation to which this protocol applies** | COVID-19 Vaccine Moderna is indicated for the active immunisation of individuals for the prevention of coronavirus disease (COVID-19) caused by the SARS-CoV-2 virus, in accordance with the national COVID-19 vaccination programme (see [COVID-19 vaccination programme page](https://www.gov.uk/government/collections/covid-19-vaccination-programme)) and recommendations given in [Chapter 14a](https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a) of Immunisation Against Infectious Disease: the ‘Green Book’ and subsequent correspondence/publications from PHE and/or NHS England and NHS Improvement. |
| **Criteria for inclusion**  Continued over page  **Criteria for inclusion**  (continued) | COVID-19 Vaccine Moderna should be offered to individuals, aged 18 years and over, in accordance with Joint Committee on Vaccination and Immunisation (JCVI) guidance in the following order of priority, starting with those to be vaccinated first:   |  |  | | --- | --- | | **Priority** | **Risk group** | | 1 | Residents in a care home for older adults and their carers | | 2 | All those 80 years of age and over  Frontline health and social care workers (see [Chapter 14a](https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a)) | | 3 | All those 75 years of age and over | | 4 | All those 70 years of age and over  Clinically extremely vulnerable[[3]](#footnote-4) individuals (see [Definition of clinically extremely vulnerable groups](https://www.gov.uk/government/publications/guidance-on-shielding-and-protecting-extremely-vulnerable-persons-from-covid-19/guidance-on-shielding-and-protecting-extremely-vulnerable-persons-from-covid-19#cev)) | | 5 | All those 65 years of age and over | | 6 | All individuals aged 16[[4]](#footnote-5) to 65 years in an at-risk group (see the table ‘Clinical risk groups 16 years of age and over who should receive COVID-19 immunisation’ in [Chapter 14a](https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a))[[5]](#footnote-6) | | 7 | All those 60 years of age and over | | 8 | All those 55 years of age and over | | 9 | All those 50 years of age and over |   Vaccination in pregnancy should be offered, in accordance with [Chapter 14a](https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a), following a discussion of the risks and benefits of vaccination with the woman, who should be told about the absence of safety data for the vaccine in pregnancy (see [Cautions](#CautionPregnancy)).  Phase 2 of the COVID 19 vaccination programme should be offered in accordance with national recommendations and JCVI guidance on the ‘[Priority groups for phase 2 of the coronavirus (COVID-19) vaccination programme](https://www.gov.uk/government/publications/priority-groups-for-phase-2-of-the-coronavirus-covid-19-vaccination-programme-advice-from-the-jcvi)’ in the following age-based order of priority, starting with the oldest adults first and proceeding in the following order:   * all those aged 40 to 49 years * all those aged 30 to 39 years * all those aged 18 to 29 years   Implementation of the COVID-19 vaccination programme should aim to achieve high vaccine uptake whilst prioritising those most at risk. The priority order should be followed if it is reasonably practicable to do so. Implementation should also involve flexibility in vaccine deployment at a local level. Operational considerations, such as minimising wastage, may require a flexible approach to prioritisation, such as advised for detained settings[[6]](#footnote-7), where decisions are taken in consultation with national or local public health experts.  JCVI advises that local teams exercise operational judgment and consider a universal offer to people experiencing homelessness and rough sleeping, alongside delivery of the programme to priority group 6, where appropriate.6 |
| **Criteria for exclusion[[7]](#footnote-8)** | Individuals for whom valid consent, or ‘best-interests’ decision in accordance with the Mental Capacity Act 2005, has not been obtained. The [Patient information leaflet for COVID-19 Vaccine Moderna](https://www.gov.uk/government/publications/regulatory-approval-of-covid-19-vaccine-moderna) should be available to inform consent.  Individuals who:   * are less than 18 years of age * have had a previous systemic allergic reaction (including immediate onset anaphylaxis) to a previous dose of a COVID-19 mRNA vaccine or to any component of the vaccine or residues from the manufacturing process[[8]](#footnote-9) [[9]](#footnote-10) * have a history of immediate anaphylaxis to multiple, different drug classes, with the trigger unidentified (this may indicate polyethylene glycol (PEG) allergy) * have a history of anaphylaxis to a vaccine, injected antibody preparation or a medicine likely to contain PEG (such as depot steroid injection, laxative) * have history of idiopathic anaphylaxis * are suffering from acute severe febrile illness (the presence of a minor infection is not a contraindication for vaccination) * have received a full dose of COVID-19 vaccine in the preceding 28 days * have completed a course of COVID-19 vaccination |
| **Cautions including any relevant action to be taken**  Continued over page  **Cautions including any relevant action to be taken**  (continued)  Continued over page  **Cautions including any relevant action to be taken**  (continued) | All recipients of the COVID-19 Vaccine Moderna should be kept for observation and monitored for a minimum of 15 minutes. Facilities for management of anaphylaxis should be available at all vaccination sites.  Where individuals experienced a possible allergic reaction to a first dose of COVID-19 vaccine follow the guidance in [Chapter 14a](https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a) of the Green Book in relation to the administration of subsequent doses.  Individuals with non-allergic reactions (vasovagal episodes, non-urticarial skin reaction or non-specific symptoms) to the first dose of a COVID-19 vaccine can receive the second dose of vaccine in any vaccination setting.  Syncope (fainting) can occur following, or even before, any vaccination especially in adolescents as a psychogenic response to the needle injection. This can be accompanied by several neurological signs such as transient visual disturbance, paraesthesia and tonic-clonic limb movements during recovery. It is important that procedures are in place to avoid injury from faints.  Vaccination in pregnancy should be offered in accordance with recommendations in [Chapter 14a](https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a), following a discussion of the risks and benefits of vaccination with the woman. The Royal College of Obstetricians and Gynaecologists has produced a decision aid to support women to make a personal informed choice, in discussion with a healthcare professional, about whether to accept a COVID-19 vaccination in pregnancy (see <https://www.rcog.org.uk/covid-vaccine>).  Individuals with a bleeding disorder may develop a haematoma at the injection site. Individuals with bleeding disorders may be vaccinated intramuscularly if, in the opinion of a doctor familiar with the individual's bleeding risk, vaccines or similar small volume intramuscular injections can be administered with reasonable safety by this route. If the individual receives medication/treatment to reduce bleeding, for example treatment for haemophilia, intramuscular vaccination can be scheduled shortly after such medication/treatment is administered. Individuals on stable anticoagulation therapy, including individuals on warfarin who are up to date with their scheduled INR testing and whose latest INR was below the upper threshold of their therapeutic range, can receive intramuscular vaccination. A fine needle (equal to 23 gauge or finer calibre such as 25 gauge) should be used for the vaccination, followed by firm pressure applied to the site (without rubbing) for at least 2 minutes. If in any doubt, consult with the clinician responsible for prescribing or monitoring the individual’s anticoagulant therapy. If the registered professional clinically assessing the individual is not the vaccinator, they must ensure the vaccinator is aware of the individuals increased risk of haematoma and the need to apply firm pressure to the injection site for at least 2 minutes. The individual/carer should be informed about the risk of haematoma from the injection.  Individuals who are participating in a clinical trial of COVID-19 vaccines who present for vaccination should be referred back to the trial investigators. Eligible individuals who are enrolled in vaccine trials should then be provided with written advice on whether and when they can be safely vaccinated in the routine programme.  **Past history of COVID-19 infection**  There is no evidence of any safety concerns from vaccinating individuals with a past history of COVID-19 infection, or with detectable COVID-19 antibody.  Vaccination of individuals who may be infected but asymptomatic or incubating COVID-19 infection is unlikely to have a detrimental effect on the illness. Vaccination should be deferred in those with confirmed infection to avoid onward transmission and confusing the differential diagnosis. As clinical deterioration can occur up to two weeks after infection, ideally vaccination should be deferred until clinical recovery to around four weeks after onset of symptoms or four weeks from the first confirmed positive specimen in those who are asymptomatic.  Having prolonged COVID-19 symptoms is not a contraindication to receiving COVID-19 vaccine but if the individual is seriously debilitated, still under active investigation, or has evidence of recent deterioration, deferral of vaccination may be considered to avoid incorrect attribution of any change in the person’s underlying condition to the vaccine.  **Vaccine Surveillance**  The UK regulator will maintain real-time surveillance post deployment of COVID-19 vaccines in the UK. In response to any safety signals, MHRA may provide temporary advice or make substantive amendments to the authorised conditions of the vaccine product’s supply in the UK. Administration under this protocol must be in accordance with the most up-to-date advice or amendments (see [Chapter 14a](https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a) and the [SPC](https://www.gov.uk/government/publications/regulatory-approval-of-covid-19-vaccine-moderna) for COVID-19 Vaccine Moderna). |
| **Action to be taken if the individual is excluded** | The risk to the individual of not being immunised must be considered. The indications for risk groups are not exhaustive, and the healthcare practitioner should consider the risk of COVID-19 exacerbating any underlying disease that an individual may have, as well as the risk of serious illness from COVID-19 itself. Where appropriate, such individuals should be referred for assessment of clinical risk. Where risk is identified as equivalent to those currently eligible for immunisation, vaccination may only be provided by an appropriate prescriber or on a patient specific basis, under a PSD.  Children at very high risk of exposure and serious outcomes such as older children with severe neuro-disabilities that require residential care should be referred to specialists for consideration for vaccination, under a PSD, following assessment of the individual’s risk.  For individuals who have had previous systemic allergic reaction (including immediate onset anaphylaxis) to a previous dose of COVID-19 mRNA vaccine, or any component of the vaccine, advice should be sought from an allergy specialist.  Special precautions as described in [Chapter 14a](https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a), and consideration of the possibility of undiagnosed PEG-allergy, is required for individuals with:   * history of immediate anaphylaxis to multiple, different drug classes, with the trigger unidentified (this may indicate PEG allergy) * history of anaphylaxis to a vaccine, injected antibody preparation or a medicine likely to contain PEG (such as depot steroid injection, laxative) * history of idiopathic anaphylaxis   Such individuals should not be vaccinated with COVID-19 Vaccine Moderna, except on the expert advice of an allergy specialist and under a PSD. The AstraZeneca COVID-19 vaccine can be used as an alternative (unless otherwise contraindicated), particularly if they previously tolerated an injected influenza vaccine. In these circumstances, the AstraZeneca COVID-19 vaccine should be administered in a setting with full resuscitation facilities (such as a hospital) and a 30 minute observation period is recommended.  In case of postponement due to acute illness, advise when the individual can be vaccinated and, if possible, ensure another appointment is arranged.  Document the reason for exclusion and any action taken. |
| **Action to be taken if the individual or carer declines treatment**  Continued over page  **Action to be taken if the individual or carer declines treatment** (continued) | Informed consent, from the individual or a person legally able to act on the person’s behalf, must be obtained for each administration and recorded appropriately. Where a person lacks the capacity, in accordance with the Mental Capacity Act 2005, a decision to vaccinate may be made in the individual’s best interests.  Advise the individual/carer about the protective effects of the vaccine, the risks of infection and potential complications if not immunised.  Document advice given and the decision reached. |
| **Arrangements for referral** | As per local policy. |

**STAGE 1b: Description of treatment**

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| **ACTIVITY STAGE 1b:** | **Consider any relevant cautions, interactions or adverse drug reactions.**  **Provide advice to the individual and obtain informed consent2.**  **Record individual’s consent2 and ensure vaccinator, if another person, is informed of the vaccine product to be administered.** |
| **Name, strength & formulation of drug** | COVID-19 Vaccine Moderna dispersion for injection  COVID-19 mRNA Vaccine (nucleoside modified)  This is a multidose vial and one vial contains 10 doses.  One dose (0.5 ml) contains 100 micrograms of mRNA (embedded in SM-102 lipid nanoparticles). |
| **Legal category** | Prescription only medicine (POM). |
| **Black triangle▼** | Yes. As a new vaccine product, MHRA has a specific interest in the reporting of adverse drug reactions for this product. |
| **Off-label use** | The COVID-19 Vaccine Moderna [SPC](https://www.gov.uk/government/publications/regulatory-approval-of-covid-19-vaccine-moderna) recommends that the second dose is administered 28 days after the first dose. For operational purposes, COVID-19 Vaccine Moderna should be administered under this national protocol at an interval of 4-12 weeks in accordance with official national recommendations from the JCVI for the delivery of the COVID-19 vaccination programme in England (see [Chapter 14a](https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a)).  Vaccine should be stored according to the conditions detailed in the [Storage section](#Storage) below. However, in the event of an inadvertent or unavoidable deviation of these conditions refer to [PHE Vaccine Incident Guidance](https://www.gov.uk/government/publications/vaccine-incident-guidance-responding-to-vaccine-errors). Where vaccine is assessed in accordance with these guidelines as appropriate for continued use this would constitute off-label administration under this protocol.  Where a vaccine is recommended off-label consider, as part of the consent process, informing the individual/carer that the vaccine is being offered in accordance with national guidance but that this is outside the product licence. |
| **Drug interactions**  Continued over page  **Drug interactions**  (continued) | Immunological response may be diminished in those receiving immunosuppressive treatment, but it is important to still immunise this group.  Although no data for co-administration of COVID-19 vaccine with other vaccines exists, in the absence of such data, first principles would suggest that interference between inactivated vaccines with different antigenic content is likely to be limited. Based on experience with other vaccines, any potential interference is most likely to result in a slightly attenuated immune response to one of the vaccines. There is no evidence of any  safety concerns, although it may make the attribution of any adverse events more difficult.  It should not be routine to offer appointments to give this vaccine at the same time as other vaccines. Scheduling should ideally be separated by an interval of at least 7 days to avoid incorrect attribution of potential adverse events.  Where individuals in an eligible cohort present having received another inactivated or live vaccine, COVID-19 vaccination should still be considered. The same applies for other live and inactivated vaccines where COVID-19 vaccination has been received first or where an individual presents requiring two vaccines. In most cases, vaccination should proceed, and may be provided under the protocol, to avoid any further delay in protection and to avoid the risk of the individual not returning for a later appointment. In such circumstances, individuals should be informed about the likely timing of potential adverse events relating to each vaccine. |
| **Identification & management of adverse reactions** | The COVID-19 Vaccine Moderna adverse reactions most commonly reported were injection site reactions (including pain, swelling, erythema, urticaria, rash), fatigue, chills, pyrexia, rash, myalgia, arthralgia, headache, nausea, vomiting and lymphadenopathy.  Facial paralysis and facial swelling have been rarely reported.  Anaphylaxis and hypersensitivity have also been reported.  Individuals should be provided with the advice within the leaflet [What to expect after your COVID-19 vaccination](https://www.gov.uk/government/publications/covid-19-vaccination-what-to-expect-after-vaccination), which covers the reporting of adverse reactions and their management, such as with analgesic and/or antipyretic medication.  Vaccinated individuals should be advised that the COVID-19 vaccine may cause a mild fever, which usually resolves within 48 hours. This is a common, expected reaction and isolation is not required unless COVID-19 is suspected.  A detailed list of adverse reactions is available in the product’s [SPC](https://www.gov.uk/government/publications/regulatory-approval-of-covid-19-vaccine-moderna). |
| **Reporting procedure of adverse reactions** | Healthcare professionals and individuals/carers should report suspected adverse reactions to the Medicines and Healthcare products Regulatory Agency (MHRA) using the Coronavirus Yellow Card reporting scheme on:  <https://coronavirus-yellowcard.mhra.gov.uk/> Or search for MHRA Yellow Card in the Google Play or Apple App Store.  As a new vaccine product, MHRA has a specific interest in the reporting of all adverse drug reactions for this product, see <https://yellowcard.mhra.gov.uk/the-yellow-card-scheme/>  Any adverse reaction to a vaccine should also be documented in the individual’s record and the individual’s GP should be informed.  The Green Book [Chapter 14a](https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a) and [Chapter 8](https://www.gov.uk/government/publications/vaccine-safety-and-adverse-events-following-immunisation-the-green-book-chapter-8) provide further details regarding the clinical features of reactions to be reported as ‘anaphylaxis’. Allergic reactions that do not include the clinical features of anaphylaxis should be reported as ‘allergic reaction’. |

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| **Written information to be given to individual or carer** | Ensure the individual has been provided appropriate written information such as the:   * [Patient information leaflet for COVID-19 Vaccine Moderna](https://www.gov.uk/government/publications/regulatory-approval-of-covid-19-vaccine-moderna) * [COVID-19 Vaccination Record Card](https://www.healthpublications.gov.uk/ViewArticle.html?sp=Scovidvaccinerecordcard2doses) * [What to expect after your COVID-19 vaccination](https://www.gov.uk/government/publications/covid-19-vaccination-what-to-expect-after-vaccination)  * [COVID-19 vaccination: women of childbearing age, currently pregnant, or breastfeeding](https://www.gov.uk/government/publications/covid-19-vaccination-women-of-childbearing-age-currently-pregnant-planning-a-pregnancy-or-breastfeeding) |
| **Advice / follow up treatment** | As with all vaccines, immunisation may not result in protection in all individuals. Immunosuppressed individuals should be advised that they may not make a full immune response to the vaccine. Nationally recommended protective measures should still be followed.  Inform the individual/carer of possible side effects and their management.  The individual/carer should be advised to seek appropriate advice from a healthcare professional in the event of an adverse reaction.  Advise the individual/carer that they can report side effects directly via the national reporting system run by the MHRA known as the Coronavirus Yellow Card reporting scheme on:  <https://coronavirus-yellowcard.mhra.gov.uk/> . Or search for MHRA Yellow Card in the Google Play or Apple App Store. By reporting side effects, they can help provide more information on the safety of medicines.  Vaccine recipients should be monitored for 15 mins after vaccination, with a longer observation period when indicated after clinical assessment (see [Chapter 14a](https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a)).  When applicable, advise the individual/carer when to return for vaccination or when a subsequent vaccine dose is due. |
| **Special considerations / additional information**  Continued over page  **Special considerations / additional information**  (continued) | Ensure there is immediate access to an anaphylaxis pack including adrenaline (epinephrine) 1 in 1,000 injection and easy access to a telephone at the time of vaccination.  Minor illnesses without fever or systemic upset are not valid reasons to postpone vaccination. If an individual is acutely unwell, vaccination should be postponed until they have fully recovered. This is to avoid confusing the differential diagnosis of any acute illness (including COVID-19) by wrongly attributing any signs or symptoms to the adverse effects of the vaccine.  **Breastfeeding**  There is no known risk associated with giving non-live vaccines whilst breastfeeding. JCVI advises that breastfeeding women may be offered COVID-19 vaccination.  The developmental and health benefits of breastfeeding should be considered along with the mother’s clinical need for immunisation against COVID-19, and the woman should be informed about the absence of safety data for the vaccine in breastfeeding women. Breastfeeding women may be vaccinated under this protocol.  **Previous incomplete vaccination**  There is no evidence on the interchangeability of the COVID-19 vaccines although studies are underway. Therefore, every effort should be made to determine which vaccine the individual received and to complete the course with the same vaccine. For individuals who started the schedule and who attend for vaccination at a site where the same vaccine is not available, or if the first product received is unknown, it is reasonable to offer one dose of the locally available product to complete the schedule. This option is preferred if the individual is likely to be at immediate high risk or is considered unlikely to attend again. In these circumstances, this protocol may be used and, as COVID-19 vaccines are based on the spike protein, it is likely the second dose will help to boost the response to the first dose. For this reason, until additional information becomes available, further doses would not then be required. |

**STAGE 2: Vaccine Preparation**

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| **ACTIVITY STAGE 2:** | **Vaccine preparation** |
| **Vaccine presentation** | COVID-19 Vaccine Moderna dispersion for injection  COVID-19 mRNA Vaccine (nucleoside modified)  This is a multidose vial and one vial contains 10 doses.  One dose (0.5 ml) contains 100 micrograms of mRNA (embedded in SM-102 lipid nanoparticles). |
| **Supplies** | Providers should order/receive COVID-19 vaccines via the national appointed supply route for the provider.  NHS standard operating procedures should be followed for appropriate ordering, storage, handling, preparation, administration and waste minimisation of COVID-19 Vaccine Moderna, which ensure use is in accordance with the product’s [SPC](https://www.gov.uk/government/publications/regulatory-approval-of-covid-19-vaccine-moderna) and official national recommendations. |
| **Storage**  Continued over page  **Storage**  continued | COVID-19 Vaccine Moderna multiple-dose vials are stored frozen between -25ºC to -15ºC.  Do not store or transport on dry ice or below -40ºC.  Protect from light.  Shelf life is 7 months at -25ºC to -15ºC.  Remove the required number of vials from freezer storage and thaw each vial before use:   * thaw in refrigerated conditions between 2°C to 8°C for 2½ hours. Then let each vial stand at room temperature for 15 minutes before administering * alternatively, thaw at room temperature between 15°C to 25°C for 1 hour * do not re-freeze vials after thawing  After thawing Once thawed, the medicinal product should not be re-frozen and may be stored refrigerated at 2°C to 8°C protected from light for up to 30 days if not used (needle-punctured).  Chemical and physical stability of an unopened vial after removal from refrigerated conditions has been demonstrated for 12 hours at 8°C to 25°C. Do not refreeze. Punctured Vial: Chemical and physical in-use stability has been demonstrated for 6 hours at 2ºC to 25ºC after first puncture.  COVID-19 Vaccine Moderna is preservative-free. Once the vial has been used (needle-punctured) to withdraw the initial dose, the vaccine should be used immediately. Any unused vaccine should be discarded after 6 hours.  The above details relate to storage requirements and available stability data at the time of product authorisation. This may be subject to amendment as more data becomes available. Refer to NHS standard operating procedures for the service and the most up to date manufacturer’s recommendations in the product’s [SPC](https://www.gov.uk/government/publications/regulatory-approval-of-covid-19-vaccine-moderna).  In the event of an inadvertent or unavoidable deviation of these conditions, vaccine that has been stored outside the conditions stated above should be quarantined and risk assessed for suitability of continued off-label use or appropriate disposal. Refer to [PHE Vaccine Incident Guidance](https://www.gov.uk/government/publications/vaccine-incident-guidance-responding-to-vaccine-errors). |
| **Vaccine preparation** | Vaccine should be prepared in accordance with the manufacturer’s recommendations and NHS standard operating procedures for the service.  The vaccine should not be mixed in the same syringe with any other vaccines or medicinal products.  Inspect visually prior to administration and ensure appearance is a white to off-white dispersion. It may contain white or translucent product-related particulates. If foreign particulate matter or discolouration are present, the vaccine should not be administered.  Check product name, batch number and expiry date.  Swirl the vial gently after thawing and between each withdrawal. Do not shake.  Aseptic technique should be used to withdraw each 0.5 ml dose of vaccine from the vial, using a new sterile needle and syringe for each injection to prevent transmission of infectious agents from one person to another. The dose in the syringe should be used promptly.  COVID-19 Vaccine Moderna vials are multidose and, if low dead-volume syringes and/or needles are used, one vial contains at least 10 doses. Care should be taken to ensure a full 0.5 ml dose is administered. Where a full 0.5 ml dose cannot be extracted, the remaining volume should be discarded. Do not pool excess vaccine from multiple vials.  This product is preservative-free. Once the vial has been used (needle-punctured) to withdraw the initial dose, the vaccine should be used immediately. Any unused vaccine should be discarded after 6 hours.  The vaccine may be drawn up and administered by the same person or separate persons with the required competence and supervision. If the vaccine is to be administered by a person other than the person preparing it, ensure that there are clear procedures for transferring the vaccine to the vaccinator in a safe way, allowing for appropriate checks of vaccine particulars, batch number and expiry by both parties. |
| **Disposal** | Follow local clinical waste policy and NHS standard operating procedures and ensure safe and secure waste disposal.  Equipment used for vaccine preparation, including used vials, ampoules, or discharged vaccines in a syringe or applicator, should be disposed of safely and securely, according to local authority regulations and guidance in the [technical memorandum 07-01](https://www.gov.uk/government/publications/guidance-on-the-safe-management-of-healthcare-waste): Safe management of healthcare waste (Department of Health, 2013). |

**STAGE 3: Vaccine Administration**

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| **ACTIVITY STAGE 3:** | **Before administering the vaccine, ensure:**   1. **The individual has been assessed in accordance with stage one of this protocol.** 2. **The vaccine to be administered has been identified, by the registered practitioner consenting the individual, as COVID-19 Vaccine Moderna.** 3. **Consent for vaccination has been provided and documented.1**   **Administer COVID-19 Vaccine Moderna and provide any post-vaccination advice.** |
| **Vaccine to be administered** | COVID-19 Vaccine Moderna dispersion for injection  COVID-19 mRNA Vaccine (nucleoside modified)  One dose (0.5 ml) contains 100 micrograms of mRNA (embedded in SM-102 lipid nanoparticles). |
| **Dose and frequency of administration** | A two-dose course should be administered consisting of 0.5ml followed by a second dose of 0.5ml after an interval of at least 28 days. For operational purposes the second dose may be given between 4 to 12 weeks following the first dose or in accordance with official national guidance at the time.  If an interval longer than the recommended interval is left between doses, the second dose should still be given (using the same vaccine as was given for the first dose if possible, see [Additional Information](#AdditionInformationIncompleteVaccination)). The course does not need to be restarted. |
| **Duration of treatment** | See [Dose and frequency of administration](#DoseAndFrequencyOfAdministration) above.  Booster doses of COVID-19 vaccines are not yet recommended because the need for, and timing of, boosters has not yet been determined. |
| **Quantity to be supplied / administered** | Administer 0.5ml per dose.  A two-dose course should be completed. |
| **Route / method of administration** | COVID-19 Vaccine Moderna is for administration by intramuscular injection only, preferably into deltoid region of the upper arm.  Vaccinators should administer a 0.5ml dose prepared in accordance with [Stage 2](#Stage2) above.  If vaccine is not drawn up by the vaccinator, safe procedures must be in place for the vaccinator to safely receive, check, and use the vaccine immediately after preparation.  Inspect visually prior to administration and ensure appearance is a white to off-white dispersion. It may contain white or translucent product-related particulates. If foreign particulate matter or discolouration are present, the vaccine should not be administered.  Check product name, batch number and expiry date prior to administration.  Where the individual has been identified by the assessing registered professional as being at increased risk of bleeding, a fine needle (equal to 23 gauge or finer calibre such as 25 gauge) should be used for the vaccination, followed by firm pressure applied to the site (without rubbing) for at least 2 minutes. The individual/carer should be informed about the risk of haematoma from the injection. |
| **Disposal** | Follow local clinical waste policy and NHS standard operating procedures and ensure safe and secure waste disposal.  Equipment used for immunisation, including used vials, ampoules, or discharged vaccines in a syringe or applicator, should be disposed of safely and securely according to local authority regulations and guidance in the [technical memorandum 07-01](https://www.gov.uk/government/publications/guidance-on-the-safe-management-of-healthcare-waste): Safe management of healthcare waste (Department of Health, 2013). |
| **Post-vaccination advice** | Vaccine recipients should be monitored for 15 mins after vaccination, with a longer observation period when indicated after clinical assessment (see [Chapter 14a](https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a)).  Ensure the individual has been provided appropriate written information such as the:   * [Patient information leaflet for COVID-19 Vaccine Moderna](https://www.gov.uk/government/publications/regulatory-approval-of-covid-19-vaccine-moderna) * [COVID-19 Vaccination Record Card](https://www.healthpublications.gov.uk/ViewArticle.html?sp=Scovidvaccinerecordcard2doses) * [What to expect after your COVID-19 vaccination](https://www.gov.uk/government/publications/covid-19-vaccination-what-to-expect-after-vaccination) |

**STAGE 4: Recording vaccine adminstration**

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| **ACTIVITY STAGE 4:** | **Complete a record of vaccination for the individual and in accordance with local policy.**  **The required records should be completed by the person who is undertaking the recorded activity or a designated record keeper who is a witness to the activity undertaken.** |
| **Records** | Record:   * that valid informed consent was given or a decision to vaccinate made in the individual’s best interests in accordance with the Mental Capacity Act 2005 * name of individual, address, date of birth and GP with whom the individual is registered (or record where an individual is not registered with a GP) * name of immuniser and, where different from the immuniser, ensure the professional assessing the individual, person preparing the vaccine, and person completing the vaccine record are identified * name and brand of vaccine * date of administration * dose, form and route of administration of vaccine * quantity administered * batch number and expiry date * anatomical site of vaccination * advice given, including advice given if excluded or declines immunisation * details of any adverse drug reactions and actions taken * supplied via national protocol   All records should be clear, legible and contemporaneous.  As a variety of COVID-19 vaccines are available, it is especially important that the exact brand of vaccine, batch number and site at which each vaccine is given is accurately recorded in the individual’s records.  It is important that vaccinations are recorded in a timely manner on appropriate health care records for the individual. Systems should be in place to ensure this information is returned to the individual’s general practice record in a timely manner to allow clinical follow up and to avoid duplicate vaccination.  A record of all individuals receiving treatment under this protocol should also be kept for audit purposes in accordance with local and national policy. |

1. **Key references**

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| **Key references** | **COVID-19 Vaccine Moderna**   * Immunisation Against Infectious Disease: The Green Book, [Chapter 14a](https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a). Published 12 February 2021.   <https://www.gov.uk/government/collections/immunisation-against-infectious-disease-the-green-book>   * COVID-19 vaccination programme. Updated 23 March 2021.   <https://www.gov.uk/government/collections/covid-19-vaccination-programme> Priority groups for phase 2 of the coronavirus (COVID-19) vaccination programme: advice from the JCVI. Published 26 February 2021.<https://www.gov.uk/government/publications/priority-groups-for-phase-2-of-the-coronavirus-covid-19-vaccination-programme-advice-from-the-jcvi>  * Definition of clinically extremely vulnerable groups <https://www.gov.uk/government/publications/guidance-on-shielding-and-protecting-extremely-vulnerable-persons-from-covid-19/guidance-on-shielding-and-protecting-extremely-vulnerable-persons-from-covid-19#cev> * Training recommendations for COVID-19 vaccinators. Published 8 December 2020.   <https://www.gov.uk/government/publications/covid-19-vaccinator-training-recommendations/training-recommendations-for-covid-19-vaccinators>   * National COVID-19 vaccination e-learning programme   <https://www.e-lfh.org.uk/programmes/covid-19-vaccination/>   * COVID-19 vaccinator competency assessment tool. Published 16 March 2021.   <https://www.gov.uk/government/publications/covid-19-vaccinator-competency-assessment-tool>   * COVID-19: vaccination programme guidance for healthcare practitioners. Published 26 February 2021.   <https://www.gov.uk/government/publications/covid-19-vaccination-programme-guidance-for-healthcare-practitioners>   * Summary of product characteristics [and patient information leaflet for COVID-19 Vaccine Moderna](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/940566/Information_for_UK_recipients_on_Pfizer_BioNTech_COVID-19_vaccine.pdf). Published 1 April 2021.   <https://www.gov.uk/government/publications/regulatory-approval-of-covid-19-vaccine-moderna>  **General**   * Health Technical Memorandum 07-01: Safe Management of Healthcare Waste. Department of Health 20 March 2013 <https://www.gov.uk/government/publications/guidance-on-the-safe-management-of-healthcare-waste> * PHE Vaccine Incident Guidance   <https://www.gov.uk/government/publications/vaccine-incident-guidance-responding-to-vaccine-errors>   * Regulation 247A, UK Statutory Instrument 2012 No. 1916, The Human Medicines Regulations 2012   <https://www.legislation.gov.uk/uksi/2012/1916/regulation/247A>   * UK Statutory Instrument 2020 No. 1125, The Human Medicines (Coronavirus and Influenza) (Amendment) Regulations 2020   <https://www.legislation.gov.uk/uksi/2020/1125/contents/made>   * UK Statutory Instrument 2020 No. 1594, The Human Medicines (Coronavirus and Influenza) (Amendment) Regulations 2020   <https://www.legislation.gov.uk/uksi/2020/1594/regulation/4/made> |

**4. Practitioner/staff authorisation sheet**

**COVID-19 Vaccine Moderna** **protocol v01.00**

**Valid from: 08/04/2021 Expiry: 31/03/2022**

This authorisation sheet should be retained to serve as a record of those persons authorised to work under this protocol.

By signing this protocol you are indicating that you agree to its contents and that you will work within it.

Protocols do not remove inherent professional obligations or accountability. All persons operating under this protocol must work within their terms of employment at all times; registered healthcare professionals must abide by their professional code of conduct.

It is the responsibility of each person operating under this protocol to do so within the bounds of their own competence.

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| I confirm that I have read and understood the content of this protocol and that I am willing and competent to work to it. | | | | | | | |
| Name | Designation | Activity Stage: | | | | Signature | Date |
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**Authorising registered healthcare professional**

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| I confirm that I, as a registered healthcare professional who is familiar with the competence required in all aspects of this protocol, provide authority on behalf of the below named provider organisation, that the persons named above are competent to work under this protocol and may provide vaccination in accordance with this protocol in the course of working for **insert name of organisation / service** | | | |
| Name | Designation | Signature | Date |
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**Note to authorising registered healthcare professional**

Score through unused rows in the list of persons to prevent additions post authorisation.

If the clinical supervisor is also the authorising registered healthcare professional, they may make a self-declaration of competency above.

1. This role is different to the Band 6 ‘COVID-19 Vaccination Programme - RHCP Clinical Supervisor (Vaccinations)’ (see Accountability and delegation under the national protocols for COVID-19 vaccines: visual diagram at <https://www.england.nhs.uk/coronavirus/publication/summary-of-the-legal-mechanisms-for-administering-the-covid-19-vaccines/> ). [↑](#footnote-ref-2)
2. For those lacking mental capacity, a decision may be made in the individual’s best interests in accordance with the Mental Capacity Act 2005 [↑](#footnote-ref-3)
3. Individuals who have been identified as clinically extremely vulnerable should have this status flagged in their GP record. [↑](#footnote-ref-4)
4. COVID-19 Vaccine Moderna is only authorised for use in those 18 years of age and over (see [Criteria for exclusion](#CriteriaForExclusion)). COVID-19 mRNA vaccine BNT162b2 may be a suitable alternative for those 16-17 years of age. If COVID-19 mRNA vaccine BNT162b2 (Pfizer/BioNTech) is not available a PSD will be required to provide COVID-19 Vaccine Moderna to individuals under 18 years of age. [↑](#footnote-ref-5)
5. This also includes adult carers. [↑](#footnote-ref-6)
6. <https://www.gov.uk/government/publications/letter-from-the-health-and-social-care-secretary-on-covid-19-vaccination-phase-1-advice> [↑](#footnote-ref-7)
7. Exclusion under this protocol does not necessarily mean the medication is contraindicated, but it would be outside its remit and another form of authorisation will be required [↑](#footnote-ref-8)
8. Contains polyethylene glycol (PEG), refer to the [SPC for COVID-19 Vaccine Moderna](https://www.gov.uk/government/publications/regulatory-approval-of-covid-19-vaccine-moderna) for a full list of excipients. [↑](#footnote-ref-9)
9. PEG is also an excipient in the COVID-19 mRNA vaccine BNT162b2; individuals who have a systemic allergic reaction to the COVID-19 Vaccine Moderna should not be given a dose of the COVID-19 mRNA vaccine BNT162b2, and vice versa. [↑](#footnote-ref-10)