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National protocol for Comirnaty[®] 30micrograms/dose COVID-19 mRNA vaccine

| Reference no: | Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine protocol |
|---------------|---|
| Version no: | v07.00 |
| Valid from: | 31 March 2022 |
| Expiry date: | 1 April 2023 |

This protocol is for the administration of Comirnaty[®] 30micrograms/dose COVID-19 mRNA vaccine to individuals from 12 years of age in accordance with the national COVID-19 vaccination programme.

This protocol is for the administration of Comirnaty[®] 30micrograms/dose COVID-19 mRNA vaccine by appropriately trained persons in accordance with <u>regulation 247A</u> of the <u>Human</u> <u>Medicines Regulations 2012</u> (HMR 2012), inserted by <u>The Human Medicines (Coronavirus and Influenza) (Amendment) Regulations 2020</u>

The UK Health Security Agency (UKHSA) has developed this protocol for authorisation by or on behalf of 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 (NHSEI).

This protocol may be followed wholly from assessment through to post-vaccination by an appropriately registered healthcare professional (see <u>Characteristics of staff</u>). 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 <u>Characteristics of staff</u> 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 <u>Section 4</u> of this protocol or maintaining an equivalent electronic record.

A clinical supervisor¹, 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 final dilution and drawing up of the vaccine has its own supervision requirements in accordance with <u>Part 1</u> 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 dilution and drawing up of the vaccine if this can be done safely alongside their overarching role. Any time the

Comirnaty® 30 micrograms/dose COVID-19 mRNA Vaccine protocol v07.00 Valid from: 31 March 2022 Expiry: 1 April 2023

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 <u>Coronavirus</u> » Summary of the legal mechanisms for administering the COVID-19 vaccine(s) (england.nhs.uk))

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 25 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 or on behalf of the Secretary of State for Health and Social Care in accordance with regulation 247A of the HMR 2012, can be found via: <u>COVID-19 vaccination programme</u>

Any concerns regarding the content of this protocol should be addressed to: <u>immunisation@phe.gov.uk</u>

Change history

| Version | Version Change details | |
|---------|---|------------|
| V01.00 | 01.00 New protocol for Comirnaty® COVID-19 mRNA Vaccine | |
| V02.00 | National protocol for Comirnaty[®] COVID-19 mRNA Vaccine updated to: remove specific reference to clinically extremely vulnerable (CEV) individuals as they are covered by the inclusion of those in at risk groups include individuals aged 12 years to under 16 years of age who are in an at- risk group (see the table 'Clinical risk groups for children aged 12-15 years' in <u>Chapter 14a</u>) include other individuals from age 12 years to under 18 years of age, who do not meet any of the other criteria for inclusion, as eligible for their first dose of the COVID-19 vaccine only include individuals referred for a third primary dose of COVID-19 vaccine in accordance with patient specific recommendations from their specialist, GP or prescriber include individuals who have experienced myocarditis or pericarditis determined as likely to be related to previous COVID-19 vaccination move cautions relating to pregnancy and those involved in clinical trials to the additional information section update to cautions move updated dose and frequency of administration section to Stage 1 update the additional information on immunosuppressed individuals, co- administration and incomplete vaccination remove key references to Joint Committee on Vaccination and Immunisation (JCVI) statements which are now incorporated into the guidance in <u>Chapter 14a</u> minor wording changes and additions to text for consistency; updated references | 21/09/2021 |
| V03.00 | National protocol for Comirnaty[®] COVID-19 mRNA Vaccine updated to: include second dose for individuals 16 and 17 years of age reword criteria for inclusion reword criteria for exclusion pertaining to allergic reactions update cautions in line with revisions to <u>Chapter 14a</u> re-write dose and frequency of administration section, to identify preferred 12 week interval for those under 18 years of age and not in a risk group, to include a paragraph on minimum intervals post COVID-19 infection and to include minimum intervals for booster vaccination include the international non-proprietary name (INN) tozinameran update off-label section in line with revised Summary of product characteristics (SPC) update Special considerations/additional information section in line with revisions to <u>Chapter 14a</u> include Appendix A minor wording changes and additions to text for consistency and to rebrand from PHE to the UKHSA; updated references | 18/11/2021 |
| V04.00 | National protocol for Comirnaty[®] COVID-19 mRNA Vaccine updated to: include a 2-dose primary course for individuals aged 12 years and over state that the recommended 12-week interval, for those under 18 years, may be reduced to 8 weeks in periods of high incidence or where there is concern about vaccine effectiveness (for example a new variant). The timing | 02/12/2021 |

| V04.00 continuec | of any change will be advised by JCVI or UKHSA and published in operational guidance agreed by DHSC and NHSEI. recommend that immunosuppressed individuals who have not yet received a third dose may be given their third dose now (8 weeks after their second dose) to avoid further delay and that a booster dose can be given to immunosuppressed individuals from 16 years of age provide a minimum interval of 3 months between completion of primary vaccination and a booster dose remove line stating that pregnant women should be vaccinated at the same time as non-pregnant women update off-label section update appendix A | |
|---------------------|---|------------|
| V5.00 | National protocol for Comirnaty[®] COVID-19 mRNA Vaccine updated to: update the cautions, including any relevant action to be taken in line with updated Chapter 14a of the Green Book 14 December 2021 and UK Chief Medical Officers (CMO) report 14 December 2021 update the off-label use section with regard to temporary removal of 15 minutes observation and monitoring requirement in line with updated Chapter 14a of the Green Book 14 December 2021 and CMO report 14 December 2021 update off-label use section relating to booster in line with updated Chapter 14a of the Green Book 14 December 2021 update the special considerations and additional information section with regard to use of heterologous schedules for primary immunisation in line with updated Chapter 14a of the Green Book 14 December 2021 and CMO report 14 December 2021 and chapter 14a of the Green Book 14 December 2021 update the special considerations and additional information section with regard to use of heterologous schedules for primary immunisation in line with updated Chapter 14a of the Green Book 14 December 2021 and cMO report 14 December 2021 update patient advice and follow up treatment section in line with updated Chapter 14a of the Green Book 14 December 2021 and CMO report 14 December 2021 update the key references update the key references update dAppendix A | 15/12/2021 |
| V06.00 | National protocol for Comirnaty[®] 30micrograms/dose COVID-19 mRNA vaccine updated to: amended name of vaccine to include the strength to state Comirnaty[®] 30micrograms/dose COVID-19 mRNA Vaccine as per the SPC dated 2 December 2021 insert the age group to inform which age group the Protocol is relevant for clarity update COVID-19 vaccination programme link on page 2 provide clarity in cautions, off-label and advice sections for individuals without history of allergy update cautions section to include immune thrombocytopenia (ITP) in line with the updated Chapter 14a of the Green Book 24 December 2021 update dose and frequency and off-label sections for boosting in line with the updated Chapter 14a of the Green Book 24 December 2021 amended dose and frequency section to remove duplication add 'Waiting after COVID-19 vaccination' link in the written information and advice and follow up sections update the special considerations section regarding the completion of the course at recommended intervals in pregnancy in line with the updated Chapter 14a of the Green Book 24 December 2021 deleted duplication of advice and follow up treatment section text from the advice post-vaccination section update deferences section update Appendix A regarding boosting in line with the updated Chapter 14a of the Green Book 24 December 2021 | 05/01/2022 |

| V07.0 | 00 | National protocol for Comirnaty[®] 30micrograms/dose COVID-19 mRNA vaccine updated to: move exclusions pertaining to allergy to cautions section, as special precautions, to allow for administration on the expert advice of an allergy specialist or where at least one dose of the same vaccine has been | 23/03/2022 |
|-------|----|---|------------|
| | | tolerated previously and similarly update the actions if excluded section reflect the revised recommendations for those with a past history of COVID- 19 infection add a paragraph to off-label section pertaining to expiry extended vaccines update dose and frequency of administration section update pregnancy paragraph to reflect inclusion as a risk group clarify the vaccine that can be used to complete the primary course in those aged 12 years update to most sections of the protocol to address the above points and for minor typographical amendment | |

1. Ministerial authorisation

This protocol is not legally valid, in accordance with <u>regulation 247A</u> of the <u>HMR 2012</u>, inserted by the <u>Human Medicines (Coronavirus and Influenza) (Amendment) Regulations 2020</u>, until it is approved by or on behalf of the Secretary of State for Health and Social Care.

On 28 March 2022 Department of Health and Social Care Ministers approved this protocol in accordance with <u>regulation 247A</u> of HMR 2012.

Any provider/contractor administering Comirnaty[®] COVID-19 mRNA Vaccine 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 UK Summary of Product Characteristics (<u>SPC</u>) and/or 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.

2. Characteristics of staff

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). 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, 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 | a. Assessment of the individual presenting for vaccination | Specified Registered |
|---------|---|----------------------------|
| | b. Provide information and obtain informed consent ² | Healthcare Professionals |
| | c. Provide advice to the individual | Only (see <u>Table 2</u>) |
| 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 (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 <u>Section 4</u> | 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 consent ² 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 <u>HMR 2012</u> : | Y | N | Ν | Ν | |

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, (for further information on consent see Chapter 2 of 'The Green Book'). Comirnaty® 30 micrograms/dose COVID-19 mRNA Vaccine Protocol v07.00 Valid from: 31 March 2022 Expiry: 1 April 2023

| nurses, nursing associates and midwives currently registered with the Nursing and Midwifery Counci (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 optometrists registered with the General Optical Council optometrists registered with the General Optical Council must be a doctor, nurse or pharmacist (see Page 1) must be competent in the handling of the vaccine product, procedure for dilution of the vaccine and use of the correct technique for drawing up the correct dose must be familiar with the vaccine product and alert to any changes in the mational recommendations for the use of this vaccine must be familiar with, and alert to changes in relevant chapters of Y Y Y N must have undertaken training appropriate to this protocol and relevant to their role, as required by local policy and national SOPs and in line with the training recommendations for COVID-19 vaccination to Y N Y N vaccinating those under 18 as required by national and local policy. must have completed the national covid-19 vaccination e-learning projeramme, including the relevant vaccine specific session, and/or locally- provided COVID-19 vaccine training 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 training the prevent handling and storage of vaccines and management of the cold chain if receiving, responsible for, or handling the vaccine |
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| must be competent in intramuscular injection technique if they are |
| administering the vaccine |
| must be competent in the recognition and management of anaphylaxis, have Y N Y N completed basic life support training and able to respond appropriately to immediate adverse reactions |
| must have access to the protocol and relevant COVID-19 vaccinationYYYYYNprogrammeonline resources such as the Green Book, particularly Chapter14a, and the COVID-19 vaccination programme: Information for healthcareYYYYpractitioners documentVVVVVV |
| must understand the importance of making sure vaccine information is Y Y Y Y Y recorded on the relevant data system, meeting relevant competencies of the COVID-19 vaccinator competency assessment tool |
| must have been signed off as competent using the 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)YYYY |
| should fulfil any additional requirements defined by local or national policy Y Y Y Y |

Stage 1: Assessment of the individual presenting for vaccination

| Activity stage 1a: | Assess the individual presenting for vaccination. 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 | Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine 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 <u>COVID-19</u> <u>vaccination programme page</u>) and recommendations given in <u>Chapter 14a</u> of Immunisation Against Infectious Disease: the 'Green Book' (hereafter referred to as <u>Chapter 14a</u>), and subsequent correspondence/publications from the UKHSA and/or NHSEI. |
| Criteria for inclusion | Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine should be offered to individuals aged 12 years and over in accordance with the recommendations in <u>Chapter 14a</u> . |
| | Individuals are eligible for different dose schedules based on their age and recognised risk group (see the <u>Dose and frequency of administration</u> section). |
| Criteria for exclusion ³ | Individuals for whom valid consent, or 'best-interests' decision in accordance with the <u>Mental Capacity Act 2005</u>, has not been obtained (for further information on consent see <u>Chapter 2</u> of '<u>The Green Book'</u>). The Patient Information Leaflet (PIL) for Comirnaty® 30micrograms/dose COVID-19 mRNA vaccine should be available to inform consent. Individuals who: are less than 12 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 or residue from the manufacturing process⁴ in the Comirnaty® 30micrograms/dose COVID-19 mRNA vaccine have experienced myocarditis or pericarditis determined as likely to be related to previous COVID-19 vaccination 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 21 days |
| Cautions including any relevant action to be taken | Facilities for management of anaphylaxis should be available at all vaccination sites (see <u>Chapter 8</u> of the Green Book) and advice issued by the <u>Resuscitation Council</u> . There is a temporary suspension of the recommended observation and |
| | <u>off-label</u> use section <u>below</u>). |
| Continued over page | of allergy should be: observed for any immediate reactions whilst they are receiving any verbal post vaccination information and exiting the centre informed about the signs and symptoms of anaphylaxis and how to access immediate healthcare advice in the event of displaying any symptoms. In some settings, for example domiciliary vaccination, this may require a responsible adult to be present for at least 15 minutes |

³ 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

⁴ Contains polyethylene glycol (PEG), refer to the products <u>SPC</u> for a full list of excipients. Comirnaty[®] 30 micrograms/dose COVID-19 mRNA Vaccine Protocol v07.00 Valid from: 31 March 2022 Expiry: 1 April 2023

| Cautions including | after vaccination |
|---|--|
| any relevant action to be taken (continued) | Individuals with a personal history of allergy should be managed in line with <u>Chapter 14a</u> , Table 5. |
| | Special precautions are advised for individuals with a personal history of allergy including a: prior non-anaphylaxis allergic reaction to COVID-19 vaccine history of immediate anaphylaxis to multiple, different drug classes, with the trigger unidentified (this may indicate polyethylene glycol (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 |
| | Individuals with undiagnosed polyethylene glycol (PEG) allergy often have a history of immediate onset-unexplained anaphylaxis or anaphylaxis to multiple classes of drugs. Such individuals should not be vaccinated with the Comirnaty [®] 30 micrograms/dose COVID-19 mRNA vaccine, except on the expert advice of an allergy specialist or where at least one dose of the same vaccine has been tolerated previously. |
| | Where individuals experienced a possible allergic reaction to a dose of COVID-19 vaccine, follow the guidance in <u>Chapter 14a</u> in relation to the administration of subsequent doses. |
| | Individuals with non-allergic reactions (vasovagal episodes, non-urticarial skin reaction or non-specific symptoms) to a COVID-19 vaccine can receive subsequent doses of vaccine in any vaccination setting. Observation for 15 minutes is recommended for these individuals. |
| | No specific management is required for individuals with a family history of allergies. |
| | 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. |
| | As fainting can occur following vaccination, all those vaccinated with any of the COVID-19 vaccines should be advised not to drive for 15 minutes after vaccination. |
| | 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 |
| Continued over page | assessing the individual is not the vaccinator, they must ensure the vaccinator is aware of the individuals increased risk of haematoma and the |

| Cautions including any relevant action to be taken | need to apply firm pressure to the injection site for at least 2 minutes. The individual/parent/carer should be informed about the risk of haematoma from the injection. |
|--|--|
| (continued) | Very rare reports have been received of Guillain-Barre Syndrome (GBS) following COVID-19 vaccination (further information is available in <u>Chapter 14a</u>). Healthcare professionals should be alert to the signs and symptoms of GBS to ensure correct diagnosis and to rule out other causes, in order to initiate adequate supportive care and treatment. Individuals who have a history of GBS should be vaccinated as recommended for their age and underlying risk status. In those who are diagnosed with GBS after the first dose of vaccine, the balance of risk benefit is in favour of completing a full COVID-19 vaccination schedule. On a precautionary basis, however, where GBS occurs within six weeks of an Astra Zeneca vaccine, for any future doses Pfizer or Moderna COVID-19 vaccines are preferred. Where GBS occurs following either of the mRNA vaccines, further vaccination can proceed as normal, once recovered. |
| | Guidance produced by the UK Immune Thrombocytopenia (ITP) Forum Working Party advises discussing the potential for a fall in platelet count in patients with a history of ITP receiving any COVID-19 vaccine and recommends a platelet count check 2-5 days after the vaccine (<u>British</u> <u>Society for Haematology-COVID-19</u>). |
| | Past history of COVID-19 infection |
| | There is no convincing 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 or asymptomatic or incubating COVID-19 infection is unlikely to have a detrimental effect on the illness. |
| | For children in a risk group and adults, vaccination after COVID-19 infection should ideally be deferred until clinical recovery to around 4 weeks after onset of symptoms or 4 weeks from the first confirmed positive specimen. This is to avoid confusing the differential diagnosis as clinical deterioration can occur up to 2 weeks after infection. |
| | For children and young people under 18 years who are not in a risk group, vaccination after COVID-19 infection should ideally be deferred until 12 weeks from onset (or sample date). |
| | These recommended intervals after COVID-19 infection may be reduced to ensure operational flexibility when rapid protection is required, for example in periods of high incidence or circulation of a new variant in a vulnerable population. When rapid protection is required, any reduction in the recommended interval after COVID-19 infection will be advised by JCVI or UKHSA and published in NHSEI operational guidance. |
| | Current advice in Paediatric multisystem inflammatory syndrome temporally associated with SARS-CoV-2 infection (PIMS-TS) cases suggests that an interval of 12 weeks should be observed, although earlier administration can be considered in those at high risk of infection and/or who are fully recovered. |
| | There is no need to defer immunisation in individuals after recovery from a recent episode with compatible symptoms who were not tested unless there are strong clinical and epidemiological features to suggest the episode was COVID-19 infection. |
| Continued over page | 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. |

| Cautions including any relevant action to be taken | deferral of vaccination may be considered to avoid incorrect attribution of any change in the person's underlying condition to the vaccine. |
|--|---|
| (continued) | |
| Dose and frequency of administration | A dose of Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine is 0.3ml. Each dose contains 30micrograms of COVID-19 mRNA vaccine in 0.3ml. |
| | The 2-dose primary course consists of first dose of 30micrograms in 0.3ml followed, after an interval of at least 21 days, by a second dose of 30micrograms in 0.3ml. However, the programme schedule, including both the number of doses and the intervals between them, should be administered in accordance with official national guidance which is set out in <u>Chapter 14a</u> and summarised below and in a table at <u>Appendix A</u> . |
| | For both adenovirus vector and mRNA vaccines, there is evidence of better immune response and/or protection where longer intervals between doses in the primary schedule are used. |
| | Based on this evidence, longer intervals are likely to provide more durable protection. JCVI is currently recommending a minimum interval of 8 weeks between doses of all the available COVID-19 vaccines where a 2-dose primary schedule is used for adults and for children at high risk. Operationally, using the same minimum interval for all products will simplify supply and booking, and will help to ensure a good balance between achieving rapid and long-lasting protection. |
| | For those under 18 years who are not in a risk group a 12-week interval is preferred (see <u>below</u> and <u>Appendix A</u>). This is based on precautionary advice from the JCVI based on emerging evidence of a lower rate of myocarditis in countries that use schedules of 8 to 12 weeks. The interval may be shortened to 8 weeks when rapid protection is required, for example high incidence or circulation of a new variant in a vulnerable population. When rapid protection is required, any reduction in the recommended interval between doses will be advised by JCVI or UKHSA and published in NHSEI operational guidance. |
| | The main exception to the 8-week lower interval would be those about to commence immunosuppressive treatment. In these individuals, the licensed minimal interval of at least 21 days may be followed to enable the vaccine to be given whilst their immune system is better able to respond. |
| | If the primary course is interrupted or delayed, it should be resumed (using the same vaccine as was given for the first dose if possible, see <u>Additional Information</u>) but doses should not be repeated. |
| | Interval post COVID-19 infection |
| | For children in a risk group and adults, vaccination after COVID-19 infection should ideally be deferred until clinical recovery to around 4 weeks after onset of symptoms or 4 weeks from the first confirmed positive specimen, to avoid confusing the differential diagnosis. |
| | For children and young people under 18 years who are not in a risk group vaccination after COVID-19 infection should ideally be deferred until 12 weeks from onset (or sample date). |
| Continued over page | These recommended intervals after COVID-19 infection may be reduced to ensure operational flexibility when rapid protection is required, for example high incidence or circulation of a new variant in a vulnerable population. When rapid protection is required, any reduction in the recommended interval after COVID-19 infection will be advised by JCVI or UKHSA and published in NHSEI operational guidance. |

| Dose and frequency of administration (continued) | There is no need to defer immunisation in individuals after recovery from a recent episode with compatible symptoms who were not tested unless there are strong clinical and epidemiological features to suggest the episode was COVID-19 infection. |
|--|---|
| | Primary course for individuals in a risk group |
| | The primary course for individuals in a risk group is recommended to be scheduled as follows: individuals 12 years and over sharing living accommodation with an immunosuppressed individual of any age should receive a 2-dose primary course at a recommended 8-week minimum interval individuals 12 years and over in an at-risk group⁵ should receive a 2-dose primary course at a recommended 8-week minimum interval individuals 12 years and over in an at-risk group⁵ should receive a 2-dose primary course at a recommended 8-week minimum interval individuals from 16 years of age who are health and social care workers or carers⁵ should receive a 2-dose primary course at a recommended 8-week minimum interval |
| | Third primary dose |
| | Individuals 12 years and over who had severe immunosuppression in proximity to their first or second COVID-19 doses in the primary schedule should receive a 3-dose primary course (see 'Box 1: Criteria for a third primary dose of COVID-19 vaccine in those aged 12 years and above' in <u>Chapter 14a</u>). The third dose should be given ideally at least 8 weeks after the second dose, with special attention paid to current or planned immunosuppressive therapies. Where possible the third dose should be delayed until 2 weeks after the period of immunosuppression, in addition to the time period for clearance of the therapeutic agent. If not possible, consideration should be given to vaccination during a treatment 'holiday' or when the degree of immunosuppression is at a minimum (see Additional information section). |
| | Individuals who are not in a risk group |
| | The primary course for individuals who are not in a risk group is recommended to be scheduled as follows: individuals 12 to 17 years of age and not in a risk group (see <u>above</u>) should receive a 2-dose primary course at a recommended 12-week minimum interval^{Error! Bookmark not defined.} This interval may be reduced to 8 weeks when rapid protection is required, for example high incidence or circulation of a new variant in a vulnerable population. When rapid protection is required, any reduction in the recommended interval between doses will be advised by JCVI or UKHSA and published in NHSEI operational guidance. individuals 18 years of age and over and not in a recognised risk group should receive a 2-dose primary course at a recommended 8-week minimum interval |
| | Booster vaccination |
| | Boosters should be offered to individuals eligible as part of the national COVID-19 vaccination programme in accordance with the recommendations from the <u>JCVI</u> and <u>Chapter 14a</u> . |
| | Individuals should complete a primary course of COVID-19 vaccination before receiving any boosters. |
| Continued over page | Boosters should be given at a minimum interval of 3 months from the previous dose. |

⁵ At risk groups are listed in <u>Chapter 14a</u> (Table 3 for individuals 16 years of age and over and Table 4 for children aged 12-15 years). Comirnaty[®] 30 micrograms/dose COVID-19 mRNA Vaccine Protocol v07.00 Valid from: 31 March 2022 Expiry: 1 April 2023 Page 13 of

| Dose and frequency of administration (continued) | JCVI have advised that the Moderna (50microgram), for those aged 18 years and over, and Pfizer-BioNTech (30microgram) vaccines should be used with equal preference in the COVID-19 booster programme. Both vaccines have been shown to substantially increase antibody levels when offered as a booster dose. |
|---|--|
| 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. |
| | 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. |
| | Individuals who have experienced myocarditis or pericarditis following COVID-19 vaccination should be assessed by an appropriate clinician to determine whether it is likely to be vaccine related. As the mechanism of action and risk of recurrence of myocarditis and pericarditis are being investigated, the current advice is that an individual's second or subsequent doses should be deferred pending further investigation. Following investigation any subsequent dose should be provided by an appropriate prescriber or on a patient specific basis, under a PSD. |
| | 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 | 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 <u>Mental Capacity Act 2005</u> , a decision to vaccinate may be made in the individual's best interests. |
| | Advise the individual/parent/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

| Activity stage 1b: | Consider any relevant cautions, interactions or adverse drug reactions. Provide advice to the individual and obtain <u>informed consent</u> ² . Record individual's consent ² and ensure vaccinator, if another person, is informed of the vaccine product to be administered. |
|---|---|
| Name, strength and formulation of drug | Comirnaty [®] 30micrograms/dose concentrate for dispersion for injection COVID-19 mRNA vaccine (nucleoside modified) |
| | 1 vial (0.45ml) contains 6 doses of 0.3ml after dilution. |
| | 1 dose (0.3ml) contains 30micrograms of tozinameran, a COVID-19 mRNA vaccine (embedded in lipid nanoparticles). |
| Legal category | Prescription only medicine (POM). |
| Black triangle▼ | Yes. As a new vaccine product, the Medicines and Healthcare products Regulatory Agency (MHRA) has a specific interest in the reporting of adverse drug reactions for this product. |
| Off-label use | Primary immunisation |
| | The Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine <u>SPC</u> recommends that the second dose is administered 21 days after the first dose. There is evidence of better immune response and/or protection from COVID-19 vaccines where longer intervals between doses are used. Therefore, Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine should be administered under this national protocol in accordance with recommendations from the JCVI and <u>Chapter 14a</u> for the delivery of the COVID-19 vaccination programme in England (see <u>Dose and frequency of administration</u> section). |
| | Booster immunisation |
| | The Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine <u>SPC</u> states that 'a booster dose (third dose) of Comirnaty may be administered intramuscularly at least 6 months after the second dose in individuals 18 years of age and older'. Booster vaccination may be offered under this Protocol at a minimum interval of 3 months from the previous dose in accordance with the recommendations from the JCVI and <u>Chapter 14a</u> . |
| | The Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine <u>SPC</u> states that ' <i>Individuals who have received 1 dose of Comirnaty should receive a second dose of Comirnaty to complete the primary vaccination course and for any additional doses</i> '. However, in accordance with the recommendations in <u>Chapter 14a</u> this national protocol may be used to administer additional doses of Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine to individuals who have completed a course of another COVID-19 vaccine or to complete a primary course where the vaccine that was used to commence the course is no longer clinically appropriate or not available. |
| | Allergy |
| Continued over as as | According to the respective SPCs, it is recommended that all recipients of the Pfizer BioNTech and Moderna vaccines are kept for observation and monitored for a minimum of 15 minutes. In recognition of the need to accelerate delivery of the programme in response to the emergence of the Omicron variant, the UK Chief Medical Officers (<u>CMO</u>) have recommended suspension of this requirement. This temporary suspension, in individuals without a history of allergy, has also been agreed by the Commission on Human Medicines. However, vaccinated |

| Off-label use (continued) | individuals should be informed about the signs and symptoms of anaphylaxis and how to access immediate healthcare advice in the event of displaying any symptoms. In some settings, for example domiciliary vaccination, this may require a responsible adult to be present for at least 15 minutes after vaccination. |
|------------------------------|---|
| | Individuals with a personal history of allergy, should be managed in line with <u>Chapter 14a</u> , Table 5. No specific management is required for individuals with a family history of allergies. |
| | As fainting can occur following vaccination, all those vaccinated with any of the COVID-19 vaccines individuals should be advised not drive for 15 minutes after vaccination. |
| | The MHRA will continue to closely monitor anaphylaxis post-COVID-19 vaccination; reporting of adverse events via the Yellow Card Scheme is strongly encouraged. |
| | Storage |
| | Vaccine should be stored according to the conditions detailed in the <u>Storage section</u> . |
| | However, in the event of an inadvertent or unavoidable deviation of these conditions refer to <u>Vaccine Incident Guidance</u> . Where vaccine is assessed in accordance with these guidelines as appropriate for continued use this would constitute off-label administration under this protocol. |
| | In the event that available data supports extension to the vaccine shelf life any resulting off-label use of expiry extended vaccine under this protocol should be supported by NHS operational guidance or standard operating procedure. |
| | Where a vaccine is recommended off-label consider, as part of the consent process, informing the individual/parent/carer that the vaccine is being offered in accordance with national guidance but that this is outside the product licence. |
| Drug interactions | 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. Similar considerations apply to co-administration of inactivated (or non-replicating) COVID-19 vaccines with live vaccines such as MMR. In particular, live vaccines which replicate in the mucosa, such as live attenuated influenza vaccine (LAIV) are unlikely to be seriously affected by concomitant COVID-19 vaccination. |
| | A seven-day interval should ideally be observed between COVID-19 vaccination and shingles vaccination. This is based on the potential for an inflammatory response to COVID-19 vaccine to interfere with the response to the live virus in the older population and because of the potential difficulty of attributing systemic side effects to the newer adjuvanted shingles vaccine. |
| | For further information about co-administration with other vaccines see <u>Additional Information</u> section. |

| Identification and management of adverse reactions | The most frequent adverse reactions in individuals 16 years of age and older are injection site pain, fatigue, headache, myalgia, chills, arthralgia, pyrexia and injection site swelling. These reactions are usually mild or moderate in intensity and resolve within a few days after vaccination. Redness at the injection site, nausea and vomiting are reported as common. Lymphadenopathy is reported with a frequency of less than 1%. |
|--|--|
| | The most frequent adverse reactions in individuals 12 to 15 years of age are injection site pain, fatigue, headache, myalgia, chills, arthralgia and pyrexia. |
| | Very rare cases of myocarditis and pericarditis have been observed following vaccination with Comirnaty [®] . These cases have primarily occurred within 14 days following vaccination, more often after the second vaccination, and more often in younger men. Available data suggest that the course of myocarditis and pericarditis following vaccination is not different from myocarditis or pericarditis in general. Healthcare professionals should be alert to the signs and symptoms of myocarditis and pericarditis. Vaccinees should be instructed to seek immediate medical attention if they develop symptoms indicative of myocarditis or pericarditis such as (acute and persisting) chest pain, shortness of breath, or palpitations following vaccination. Healthcare professionals should consult <u>guidance</u> and/or specialists to diagnose and treat this condition. |
| | Individuals should be provided with the advice within the leaflet <u>What to</u> <u>expect after your COVID-19 vaccination</u> , which covers the reporting of adverse reactions and their management, such as with analgesic and/or antipyretic medication.A detailed list of adverse reactions is available in the product's <u>SPC</u> . |
| Reporting procedure of adverse reactions | Healthcare professionals and individuals/carers should report suspected adverse reactions to the MHRA using the <u>Coronavirus Yellow Card</u> <u>reporting scheme</u> 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. |
| | 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 <u>Chapter 14a</u> and <u>Chapter 8</u> 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'. |
| Written information to be given to individual or carer | Ensure the individual has been provided appropriate written information such as the: Patient Information Leaflet (PIL) for Comirnaty® 30micrograms/dose COVID-19 mRNA vaccine COVID-19 Vaccination Record Card What to expect after your COVID-19 vaccination COVID-19 vaccination: women of childbearing age, currently pregnant, or breastfeeding COVID-19 vaccination: a guide to booster vaccination Waiting after COVID-19 vaccination |
| Advice / follow up treatment | There is a temporary suspension of the recommended observation and monitoring for 15 minutes in individuals without a history of allergy (see <u>off-label</u> use section). |
| Continued over page | |

| Advice / follow up treatment (continued) | Following COVID-19 vaccine administration, individuals without a history of allergy should be: observed for any immediate reactions whilst they are receiving any verbal post vaccination information and exiting the centre informed about the signs and symptoms of anaphylaxis and how to access immediate healthcare advice in the event of displaying any symptoms. (see <u>What to expect after your COVID-19 vaccination</u> leaflet and <u>Waiting after COVID-19 vaccination</u>) |
|--|--|
| | Individuals with a personal history of allergy should be managed in line with <u>Chapter 14a</u> , Table 5. |
| | Inform the individual/parent/carer of possible side effects and their management. |
| | As fainting can occur following vaccination, all those vaccinated with any of the COVID-19 vaccines should be advised not to drive for 15 minutes after vaccination. |
| | The individual/parent/carer should be advised to seek appropriate advice from a healthcare professional in the event of an adverse reaction. In some settings, for example domiciliary vaccination, this may require a responsible adult to be present for at least 15 minutes after vaccination. |
| | Vaccinated individuals should be advised to seek immediate medical attention should they experience new onset of chest pain, shortness of breath, palpitations or arrhythmias. |
| | Advise the individual/parent/carer that they can report side effects directly via the national reporting system run by the MHRA known as the <u>Coronavirus Yellow Card reporting scheme</u> 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. |
| | 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. |
| | When applicable, advise the individual/parent/carer when to return for vaccination or when a subsequent vaccine dose is due. |
| Special considerations / additional information | 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. |
| | Pregnancy |
| | Vaccination in pregnancy should be offered in accordance with recommendations in <u>Chapter 14a</u> , following a discussion of the risks and benefits of vaccination with the woman. |
| | In December 2021, following the recognition of pregnancy as a risk factor for severe COVID-19 infection and poor pregnancy outcomes during the Delta wave, pregnancy was added to the clinical risk groups recommended COVID-19 vaccination. |
| | Because of wider experience with mRNA vaccines, these are currently the preferred vaccines to offer to pregnant women. |
| Continued over page | If a woman finds out she is pregnant after she has started a course of vaccine, she should complete vaccination at the recommended interval. |

| Special considerations / | Breastfeeding |
|--|---|
| additional information (continued) | There is no known risk associated with being given a non-live vaccine whilst breastfeeding. JCVI advises that breastfeeding women may be offered any suitable COVID-19 vaccine. Emerging safety data is reassuring; mRNA was not detected in the breast milk of recently vaccinated women and protective antibodies have been detected in breast milk. |
| | The developmental and health benefits of breastfeeding are clear and should be discussed with the woman, along with her clinical need for immunisation against COVID-19. |
| | Previous incomplete vaccination |
| | If the course is interrupted or delayed, it should be resumed using the same vaccine if possible, but the earlier doses should not be repeated. |
| | Evidence suggests that those who receive mixed schedules, including mRNA and adenovirus vectored vaccines make a good immune response, although rates of side effects with heterologous doses are higher. Accumulating evidence now supports the use of heterologous schedules for primary immunisation, and these are now recognised by the European Medicines Agency (EMA). For individuals who started the schedule and who attend for vaccination where the same vaccine is not available or suitable, or if the first product received is unknown or not available, one dose of the locally available product should be given to complete the primary course. Individuals who experienced severe expected reactions after a first dose of AstraZeneca or Pfizer BioNTech vaccines should be informed about the higher rate of such reactions when they receive a second dose of an alternate vaccine. In these circumstances, this protocol may be used. |
| | Children aged 12 years who have commenced immunisation with the Comirnaty [®] 10micrograms dose should complete vaccination with the 10micrograms dose, see <u>National protocol for Comirnaty[®]</u> <u>10micrograms/dose COVID-19 mRNA vaccine</u> , although the 30microgram dose is an alternative. Those who present for the second dose over the age of 12 years should be given the 30microgram dose. |
| | Children aged 12 years who have commenced vaccination with the 30microgram dose and who are being vaccinated alongside their peers from school year 7 may complete the course with the 10microgram dose, see <u>National protocol for Comirnaty® 10micrograms/dose COVID-19</u> <u>mRNA vaccine</u> . |
| | For individuals with a history of thrombosis combined with thrombocytopenia following vaccination with the AstraZeneca COVID-19 vaccine, current evidence would support completion of the course with an mRNA vaccine, provided a period of at least 12 weeks has elapsed since the dose of AstraZeneca vaccine. |
| | Individuals with a history of capillary leak syndrome should be carefully counselled about the risks and benefits of vaccination. An alternative vaccine to the AstraZeneca COVID-19 vaccine, such as Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine, may be offered. |
| Continued over page | Individuals who have participated in a clinical trial of either primary or booster COVID-19 vaccination should be provided with written advice on whether and when they should be safely vaccinated in the routine programme. Advice should also be provided from the trial investigators on whether any individual could receive additional doses for the purposes of vaccine certification. Trial participants who are eligible for boosters should be offered vaccination in line with the general population, at least 3 |

| Special considerations / | months after the dose considered as the final primary dose or the final revaccination (if the latter is required for certification purposes). |
|--|--|
| additional information (continued) | Individuals who have been vaccinated abroad are likely to have received an mRNA or vector vaccine based on the spike protein, or an inactivated whole viral vaccine. Specific advice is available on <u>Vaccination of those</u> <u>who received COVID-19 vaccine overseas</u> . |
| | Co-administration with other vaccines |
| | Where individuals in an eligible cohort present having recently received one or more inactivated or live vaccines, COVID-19 vaccination should still be given. The same applies for most other live and inactivated vaccines where COVID-19 vaccination has been received first or where an individual presents requiring 2 or more vaccines. It is generally better for vaccination to proceed and it may be provided under this protocol, to avoid any further delay in protection and to avoid the risk of the individual not returning for a later appointment. This includes but is not limited to vaccines commonly administered around the same time or in the same settings (including influenza and pneumococcal polysaccharide vaccine in those aged over 65 years, pertussis-containing vaccines and influenza vaccines in pregnancy, and LAIV, HPV, MenACWY and Td-IPV vaccines in the schools programmes). The only exceptions to this are the shingles vaccines, where a seven-day interval should ideally be observed. This is based on the potential for an inflammatory response to COVID-19 vaccine to interfere with the response to the live virus in the older population and because of the potential difficulty of attributing systemic side effects to the newer adjuvanted shingles vaccine. |
| | A UK study of co-administration of AstraZeneca and Pfizer BioNTech COVID-19 vaccines with inactivated influenza vaccines confirmed acceptable immunogenicity and reactogenicity. Where co-administration does occur, individuals should be informed about the likely timing of potential adverse events relating to each vaccine. If the vaccines are not given together, they can be administered at any interval, although separating the vaccines by a day or 2 will avoid confusion over systemic side effects. |
| | Non-responders / immunosuppressed |
| | Immunological response may be lower in immunocompromised individuals, but they should still be vaccinated. |
| | JCVI advises that a third primary vaccine dose be offered to individuals aged 12 years and over who had severe immunosuppression in proximity to their first or second COVID-19 doses in the primary schedule (see 'Box 1: Criteria for a third primary dose of COVID-19 vaccine in those aged 12 years and above' in <u>Chapter 14a</u>). Most individuals whose immunosuppression commenced at least 2 weeks after the second dose of vaccination do not require an additional primary vaccination at this stage. Individuals who had received brief immunosuppression (≤40mg prednisolone per day) for an acute episode (for example, asthma / COPD / COVID-19) and individuals on replacement corticosteroids for adrenal insufficiency are not considered severely immunosuppressed sufficient to have prevented response to the primary vaccination. |
| Continued over page | Third primary doses should be given ideally at least 8 weeks after the second dose, with special attention paid to current or planned immunosuppressive therapies. Where possible the third dose should be delayed until 2 weeks after the period of immunosuppression, in addition to the time period for clearance of the therapeutic agent. If not possible, consideration should be given to vaccination during a treatment 'holiday' or when the degree of immunosuppression is at a minimum. |

| Special | Individuals who have received a bone marrow transplant after vaccination |
|------------------|---|
| considerations / | should be considered for a re-immunisation programme for all routine |
| additional | vaccinations and for COVID-19 (see <u>Chapter 7</u> of the Green Book). This is |
| information | not covered by this protocol and should be provided on a patient specific |
| (continued) | basis. |
| | |

| Activity stage 2: | Vaccine preparation |
|----------------------|---|
| Vaccine presentation | Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine 30micrograms in 0.3ml dose concentrate for dispersion for injection multidose vial. |
| | 1 vial (0.45ml) contains 6 doses of 0.3ml after dilution. |
| | 1 dose (0.3ml) contains 30micrograms of COVID-19 mRNA vaccine (embedded in 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 Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine, which ensure use is in accordance with the product's <u>SPC</u> and official national recommendations. |
| Storage | Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine is supplied from the manufacturer as a multiple-dose vial of frozen, preservative-free concentrate, which requires storage at -90°C to -60°C. |
| | Frozen Vial |
| | Shelf life is 9 months at -90°C to -60°C |
| | Within the 9 months shelf life, unopened vials may be stored and transported at -25°C to -15°C for a single period of up to 2 weeks and can be returned to -90°C to -60°C. |
| | Thawed vial |
| | Thawed unopened vials have a 1-month shelf-life at 2°C to 8°C. |
| | Within the 1-month shelf-life at 2°C to 8°C, up to 12 hours may be used for transportation. |
| | Prior to use, the unopended vaccine can be stored for up to 2 hours at temperatures up to 30°C. |
| | Store in original packaging in order to protect from light. During storage, minimise exposure to room light, and avoid exposure to direct sunlight and ultraviolet light. Thawed vials can be handled in room light conditions. |
| | Once a vial is removed from the tray, it should be thawed for use. |
| | Once thawed the vaccine cannot be re-frozen. |
| | Diluted product |
| | Chemical and physical in-use stability, including during transportation, has been demonstrated for 6 hours at 2°C to 30°C after dilution in sodium chloride 0.9% solution for injection. From a microbiological point of view, unless the method of dilution precludes the risk of microbial contamination, the product should be used immediately. |
| | Precautions for storage |
| | Store in original packaging in order to protect from light. |
| | During storage, minimise exposure to room light, and avoid exposure to direct sunlight and ultraviolet light. |
| | Thawed vials can be handled in room light conditions. |
| Continued over page | These 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 |

| Storage (continued) | procedures for the service and the most up to date manufacturer's recommendations in the product's <u>SPC</u> . The product's <u>SPC</u> also contains further information on stability to guide healthcare professionals only in case of temporary temperature excursion. |
|------------------------|--|
| | 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 <u>Vaccine Incident Guidance</u> . |
| Vaccine preparation | Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine requires dilution in its original vial with 1.8ml of unpreserved sodium chloride 0.9% solution for injection, prior to withdrawing a 0.3ml dose for administration. |
| | Vaccine should be prepared in accordance with manufacturer's recommendations (see the product's <u>SPC</u>) and NHS standard operating procedures for the service. |
| | Frozen vials should be transferred to an environment of 2°C to 8°C to thaw; a 195 vial pack may take 3 hours to thaw. |
| | Alternatively, frozen vials may also be thawed for 30 minutes at temperatures up to 30 °C for immediate use. |
| | Allow the thawed vial to come to room temperature and gently invert it 10 times prior to dilution. Do not shake. |
| | Prior to dilution, the thawed dispersion may contain white to off-white opaque amorphous particles. |
| | The thawed vaccine must be diluted in its original vial with 1.8ml sodium chloride 0.9% solution for injection, using a 21 gauge or narrower needle and aseptic techniques. |
| | Equalise vial pressure before removing the needle from the vial stopper by withdrawing 1.8ml air into the empty diluent syringe. |
| | Gently invert the diluted dispersion 10 times. Do not shake the vaccine. |
| | The diluted vaccine should present as an off-white dispersion with no particulates visible. Do not use the diluted vaccine if particulates or discolouration are present. |
| | The diluted vials should be marked with the appropriate date and time. |
| | After dilution store at 2°C to 30°C and use within 6 hours, including any transportation time. |
| | Do not freeze or shake the diluted dispersion. If refrigerated, allow the diluted dispersion to come to room temperature prior to use. |
| | The vaccine dose should be drawn up from the diluted vial immediately prior to administration. |
| | In order to extract at least 6 doses from a single vial, low dead-volume syringes and/or needles should be used. Each dose must contain 0.3ml of vaccine. If the amount of vaccine remaining in the vial cannot provide a full dose of 0.3ml, discard the vial and any excess volume. Do not pool excess vaccine from multiple vials. |
| | Discard any unused vaccine within 6 hours after dilution. |
| | The vaccine may be diluted, 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 arrangements and guidance in the <u>technical memorandum 07-01</u> : Safe management of healthcare waste (Department of Health, 2013). |

Stage 3: Vaccine administration

| Activity stage 3: | Before administering the vaccine, ensure: |
|--|---|
| | 1. The individual has been assessed in accordance with stage one of this protocol. |
| | The vaccine to be administered has been identified, by the registered practitioner consenting the individual, as Comirnaty[®] 30micrograms/dose COVID-19 mRNA vaccine. Consent for vaccination has been provided and <u>documented</u>². |
| | Administer Comirnaty [®] COVID-19 mRNA Vaccine and provide any post-vaccination advice. |
| Vaccine to be administered | Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine |
| Quantity to be supplied / administered | Administer 30micrograms in 0.3ml per dose |
| Route / method of administration | Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine is for administration by intramuscular injection only, preferably into deltoid region of the upper arm. |
| | Vaccinators should administer a 0.3ml dose prepared in accordance with <u>Stage 2</u> above. Where it is within their competence, experienced vaccinators may draw the required 0.3ml dose from a vial diluted by another person, under the supervision of a doctor, nurse, or pharmacist, in accordance with <u>Stage 2</u> . |
| | If vaccine is not prepared by the vaccinator, safe procedures must be in place for the vaccinator to safely receive, check, and use the vaccine immediately after preparation. |
| | Gently invert the diluted dispersion 10 times. Do not shake the vaccine. |
| | Check product name, batch number and expiry prior to administration. |
| | Inspect visually prior to administration and ensure appearance is consistent with the description in the product's <u>SPC</u> , that is an off-white dispersion with no particulates visible. Discard the vaccine if particulates or discolouration are present. |
| | 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. |
| 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 arrangements and guidance in the <u>technical memorandum 07-01</u> : Safe management of healthcare waste (Department of Health, 2013). |
| Post-vaccination advice | Ensure the individual has been provided appropriate written information such as the: <u>Patient Information Leaflet</u> (PIL) for Comirnaty[®] 30micrograms/dose COVID-19 mRNA vaccine COVID-19 Vaccination Record Card |
| Continued over page | What to expect after your COVID-19 vaccination |

| Post-vaccination | COVID-19 vaccination: women of childbearing age, currently pregnant, |
|------------------|--|
| advice | or breastfeeding |
| (continued) | COVID-19 vaccination: a guide to booster vaccination |
| | Waiting after COVID-19 vaccination |
| | |

Stage 4: Recording vaccine adminstration

| 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 supervisor, 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 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 a timely manner on appropriate health care records for 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. | | | |

3. Key references

| Key references | Comirnaty [®] 30micrograms/dose COVID-19 mRNA vaccine |
|----------------|---|
| | Immunisation Against Infectious Disease: The Green Book, <u>Chapter 14a</u>. Published 28 February 2022. |
| | https://www.gov.uk/government/collections/immunisation-against- infectious-disease-the-green-book |
| | UK Chief Medical Officers <u>Report</u>: suspension of the 15minutes wait for vaccination with mRNA vaccine for COVID-19 13 December 2021. |
| | Summary of Product Characteristics and Patient Information Leaflet for Comirnaty[®] 30micrograms/dose COVID-19 mRNA vaccine 14 March 2022. |
| | https://www.gov.uk/government/publications/regulatory-approval-of- |
| | COVID-19 vaccination programme. Updated 3 March 2022. <u>https://www.gov.uk/government/collections/covid-19-vaccination-programme</u> |
| | Training recommendations for COVID-19 vaccinators. Updated 4 October 2021. |
| | 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. Updated 16 March 2021. |
| | https://www.gov.uk/government/publications/covid-19-vaccinator- competency-assessment-tool |
| | COVID-19: vaccination programme guidance for healthcare practitioners. Updated 10 March 2022. |
| | https://www.gov.uk/government/publications/covid-19-vaccination- programme-guidance-for-healthcare-practitioners |
| | General |
| | Health Technical Memorandum 07-01: Safe Management of Healthcare Waste. Department of Health 20 March 2013. https://www.england.nhs.uk/publication/management-and-disposal-of-healthcare-waste-htm-07-01/ |
| | 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. <u>https://www.legislation.gov.uk/uksi/2020/1125/contents/made</u> |

4. Practitioner/staff authorisation sheet

Comirnaty[®] 30 micrograms/dose COVID-19 mRNA vaccine protocol v07.00 Valid from: 31 March 2022 Expiry: 1 April 2023

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.

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: | | | e: | Signature | Date |
|------|-------------|-----------------|---|---|----|-----------|------|
| | | 1 | 2 | 3 | 4 | | |
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Authorising registered healthcare professional

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 |
|------|-------------|-----------|------|
| | | | |

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.

Recommended primary dose schedule by age and risk status.

| Individuals who are not in a risk group | | | | | | | |
|--|-------|---|---|--|--|--|--|
| Age | Doses | Advised Minimum Interval ⁶ | Recommendations | | | | |
| 12 to 15 years of age and not in a recognised risk group | 2 | 12 weeks ⁷ | A decision on boosting those aged 12-15 years not in a risk group is under consideration by JCVI. | | | | |
| 16 and 17 years of age and not in a recognised risk group nor working in health and social care or carers | 2 | 12 weeks ⁷ | Boosters should be given at a minimum interval of 3 months from the previous dose. | | | | |
| 18 years and over and not in a recognised risk group | 2 | 8 weeks | Boosters should be given at a minimum interval of 3 months from the previous dose. | | | | |
| Primary course for individuals in a risk group | | | | | | | |
| Age | Doses | Advised Minimum Interval ⁸ | Recommendations | | | | |
| From 12 years of age and sharing living accommodation with an immunosuppressed individual of any age | 2 | 8 weeks | Boosters should be given at a minimum interval of 3 months from the previous dose. | | | | |
| From 12 years of age and in an at-risk group ⁹ | 2 | 8 weeks | Boosters should be given at a minimum interval of 3 months from the previous dose. | | | | |
| From 16 years of age who are health and social care workers or carers | 2 | 8 weeks | Boosters should be given at a minimum interval of 3 months from the previous dose. | | | | |
| From 12 years of age and had severe immunosuppression in proximity to their first or second COVID-19 doses in the primary schedule | 3 | 8 weeks | Boosters should be given at a minimum interval of 3 months from the previous dose. | | | | |

⁶ For children and young people under 18 years who are not in a risk group, vaccination after COVID-19 infection should ideally be deferred until 12 weeks from onset (or sample date). This recommended interval after COVID-19 infection may be reduced to ensure operational flexibility when rapid protection is required. When rapid protection is required, any reduction in the recommended interval after COVID-19 infection will be advised by JCVI or UKHSA and published in NHSEI operational guidance.

⁷ The interval may be shortened to 8 weeks when rapid protection is required. When rapid protection is required, any reduction in the recommended interval between doses will be advised by JCVI or UKHSA and published in NHSEI operational guidance.

⁸ For children in a risk group and adults, vaccination after COVID-19 infection should ideally be deferred until clinical recovery to around 4 weeks after onset of symptoms or 4 weeks from the first confirmed positive specimen. This recommended interval after COVID-19 infection may be reduced to ensure operational flexibility when rapid protection is required. When rapid protection is required, any reduction in the recommended interval after COVID-19 infection will be advised by JCVI or UKHSA and published in NHSEI operational guidance.

⁹ At risk groups are listed in <u>Chapter 14a</u> (Table 3 for individuals 16 years of age and over and Table 4 for children aged 5-15 years).