

Patient Group Direction For The Administration of AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) by Approved Healthcare Professionals Working Within NHS Grampian, Highland, Orkney, Shetland, Tayside and Western Isles

Version 2.8

Effective from 25th March 2022

NoS/PGD/AZCOVIDChAdOx1-S/MGPG1138

Note: Other COVID19 vaccines are not covered by this PGD – separate PGDs will be available

This Patient Group Direction (PGD) has been adopted from the PGD template produced by Public Health Scotland on 31st December 2020, updated on 28th January 2021, 25th February 2021, 16th March 2021 (NOS local version), 19th April 2021, 10th May 2021, 24th May 2021, 5th July 2021, 5th August, 16th September (not issued), 17th September 2021, 24th November 2021, 29th September 2021, 4th November 2021, 18th November 2021, 30th of November 2021, 22nd December 2021, 17th January 2022, 1st March 2022 and 25th March 2022.

Version history

Version	Date	Summary of changes
1.0	31/12/20	New PGD
1.1	28/01/21	 Inclusion section updated to advise that in individuals who had systemic allergic symptoms after the first dose of Pfizer-BioNTech vaccine may be considered for a second dose using the AstraZeneca vaccine Exclusion section updated to align with wording in Green Book on previous systemic allergic reaction (including immediate-onset anaphylaxis) Cautions section updated to include advice from Green Book on second doses following non allergic reactions or localised urticarial skin reactions without systemic symptoms following first dose. Route of administration updated to align with manufacturer's advice on obtaining additional dose from vial Frequency section updated to align with advice in Green Book on timing of second dose for those commencing immunosuppressive treatment Observation following vaccination section updated with advice on post vaccine observation of second doses in those who had systemic allergic symptoms after the first dose of Pfizer-
1.2	25/2/21	The following sections have been updated: Inclusion section updated to include women who are pregnant where the risk of exposure to SARS-CoV2 infection is high and cannot be avoided, or where the woman has underlying conditions that put them at very high risk of serious complications of COVID-19 and to remove statement not including pregnant women from clinically extremely vulnerable individuals Exclusion section updated to remove pregnancy and evolving neurological conditions Exclusion section updated to include those patient characteristics which warrant special precautions as per the Green Book Cautions section updated to detail the potential for cross-reactivity between patients allergic to polyethylene glycol and polysorbate 80. This section includes advice on inclusion of patients who have no history of systematic allergic reactions to other polysorbate 80-containing injectable vaccines Cautions section updated to include Management of patients with a history of allergy and Flowchart for managing patients who have allergic reactions to the first dose of COVID-19 vaccine Action if excluded section updated to remove reference to evolving neurological conditions Frequency section updated to align with Green Book advice on scheduling of second dose.

Version	Date	Summary of changes	
		 Observation following vaccination section updated for patients who had swelling or rash local to the injection site only. 	
1.2.1	16/03/21	Local NOS variation	
		The following section have been updated:	
		 Inclusion criteria expanded to include all adults aged from 18 years up to 50 years. 	
1.3	19/04/21	The following sections have been updated:	
		 Indication section updated to include JCVI statement from 7 April 2021 and statement on phase 2 from 13 April 2021. Inclusion section updated to highlight that the inclusion criteria refer to COVID-19 Vaccine AstraZeneca. Inclusion section updated to include those aged from 18 years and adult household contacts of adults with severe immunosuppression Inclusion section updated to highlight that JCVI currently advises that it is preferable for adults aged less than 30 years without underlying health conditions to be offered an alternative COVID-19 vaccine, if available. People may make an informed choice to receive the AstraZeneca COVID-19 vaccine to receive earlier protection and in such cases vaccination using this PGD is permitted Inclusion section updated to advise that individuals aged 18 to 29 years who have received their first dose with AstraZeneca COVID-19 vaccine with no clotting episode with concomitant thrombocytopenia are permitted to receive their second dose of AstraZeneca COVID-19 vaccine using this PGD. Inclusion section updated to align with JCVI advice on the use of vaccination in pregnancy. Exclusion section updated with additional exclusions related to heparin-induced thrombocytopenia and thrombosis (HITT or HIT type 2). Exclusion section updated with additional exclusion for patients who experience a clotting episode with concomitant thrombocytopenia following the first dose of AstraZeneca COVID-19 Vaccine (ChAdOX1-S [Recombinant]). Cautions section updated to reflect JCVI advice for adults aged less than 30 years without underlying health conditions. Cautions section updated to reflect JCVI advice that those with a prior history of thrombosis or known risk factors for thrombosis are no more at risk of developing the immune-mediated condition of thrombosis in combination with thrombocytopenia after AstraZeneca COVID-19 Vaccines in pregnant women, other than those who have received the first dose of Astr	

Version	Date	Summary of changes	
		 Is this use out with the SPC section updated to highlight difference between Green Book Chapter and information for Health Care Professionals. Warnings section updated to align with Green Book Chapter. Warnings section updated to align with JCVI on the nature of, and rarity of thrombosis with thrombocytopenia risk and the relative benefits of vaccination for adults aged 30 years and over, adults who are clinically extremely vulnerable and those with underlying clinical risks Advice to patient or carer including written information section updated to align with advice from MHRA on the importance to seek urgent medical advice following vaccination in the event of specific symptoms and to provide the associated leaflet. 	
1.4	10/05/21	The following sections have been updated:	
		 Indication section updated to include reference to JCVI statement of 7 May 2021 Inclusion section updated to highlight that JCVI currently advises that it is preferable for adults aged less than 40 years without underlying health conditions to be offered an alternative COVID-19 vaccine, if available. People may make an informed choice to receive the AstraZeneca COVID-19 vaccine to receive earlier protection and in such cases vaccination using this PGD is permitted Inclusion section updated to include those requiring a different type of COVID-19 vaccine for the second dose than that given as the first dose when clinically indicated. Exclusion section update to remove exclusions related to possibility of PEG allergy. Exclusion section updated to include those bone marrow and peripheral blood stem cell donors who have commenced GCSF, the vaccination (first or second dose) must be delayed at least until 72 hours after stem cell collection (both peripheral blood stem cell and bone marrow donation). Cautions section updated to reflect JCVI advice for adults aged less than 40 years without underlying health conditions. Cautions section updated with updated information on possibility of undiagnosed PEG-allergy Frequency section updated to remove advice that the second vaccine dose should be with the same vaccine as for the first dose. Warnings section updated to reflect JCVI advice for adults aged less than 30 years without underlying health conditions. 	
1.5	24/05/21	 Frequency section updated to include JCVI advice that second doses of all vaccines should be brought forward from 12 to 8 weeks for all priority groups, with priority given to those areas where the B.1.617.2 variant is of the highest threat. 	
1.6	05/07/21	The following sections have been updated:	

Version	Date	Summary of changes
		 Exclusion section updated to add those individuals with a previous history of capillary leak syndrome. Cautions section updated to align with Green Book chapter on co-administration with other vaccines. Frequency section updated to align with Green Book chapter advice on scheduling. Frequency section updated to align with Green Book chapter on interchangeability between COVID-19 vaccines. Duration of treatment section updated to align with Green Book chapter on reinforcing immunisation.
1.7	05/08/21	 Frequency section updated to align with wording in the green book recommending a minimum interval of eight weeks between doses of all the available COVID-19 vaccines where a two-dose primary schedule is used.
1.8	16/09/21	 Indication section updated to include JCVI advice on third primary dose vaccination. Indication section updated to include JCVI statement on COVID-19 booster vaccination from 12th September 2021 Inclusion section updated to include JCVI advice on third primary dose vaccination. Inclusion section updated to include those as meeting the definition for a booster dose in line with JCVI advice. Exclusion section updated to include those in whom a COVID-19 booster dose is required and where the individual received mRNA vaccines in the primary course. Frequency section updated to include JCVI advice on third primary dose vaccination. Frequency section updated to align with JCVI advice on COVID-19 booster vaccination
1.9	17/09/21	The following sections have been updated: • Duration of treatment section updated to remove wording about booster doses.
2.0	24/09/21	 Exclusion criteria section updated to align with COVID-19 chapter of Green Book advice on contraindications and precautions in individuals with a history of allergy. Exclusion criteria section updated to include those who developed myocarditis or pericarditis following a previous COVID-19 vaccination. Cautions section updated to align with COVID-19 chapter of Green Book advice on contraindications and precautions in individuals with a history of allergy, including updated figure and flowchart. Cautions section updated to align with COVID-19 chapter of Green Book advice on co-administration with shingles vaccine and inactivated influenza vaccine Appendix 3 added with accessible version of management of patients with severe allergy table adapted from COVID-19 chapter of Green Book

Version	Date	Summary of changes
2.1	29/09/21	The following sections have been updated:
		 Frequency section updated with new flow and advice from Green Book chapter on vaccine choice for third primary dose for those with severe immunosuppression Frequency section updated with to advise in those identified as requiring a booster vaccine dose the booster dose should be administered no earlier than six months (24 weeks) after completion of the primary vaccine course.
2.2	04/11/21	The following sections have been updated:
		 Exclusion section updated to remove participation in a COVID-19 vaccine clinical trial as an exclusion. Exclusion section updated to add where Guillian Barre Syndrome has occurred within six week of a previous dose as an exclusion. Cautions section updated to align with wording on coadministration with other vaccines in COVID-19 chapter of Green Book. Cautions section updated to align with wording on safety in breastfeeding in updated COVID-19 chapter of Green Book. Cautions section updated to align with wording on use of COVID-19 vaccine in those who participated in a COVID-19 vaccine clinical trial. Action if excluded section updated to reflect that participation in a clinical trial for COVID -19 vaccine is no longer an exclusion. Frequency section updated to align with wording on interval for booster doses in updated COVID-19 chapter of Green Book.
2.3	16/11/21	The following sections have been updated:
		 Inclusion section updated to align with wording on JCVI advice on groups who should be offered a booster dose as set out in COVID-19 chapter of Green Book. Cautions section updated to align with wording on use of COVID-19 vaccine in those who participated in a COVID-19 vaccine clinical trial. Cautions section updated to align with wording on completion of course in pregnant women with AstraZeneca vaccine Frequency section updated to align with wording on interval for booster doses in updated COVID-19 chapter of Green Book (removal of 22 weeks as interval but retaining 5 months). Frequency section updated to align with wording that third doses given to those who were severely immunosuppressed at/around the time of their first or second primary dose do not count as booster doses in updated COVID-19 chapter of Green Book.
2.4	30/11/21	The following sections have been updated:
		 Indication section updated to include JCVI advice on the UK vaccine response to the Omicron variant from 29 November 2021 Inclusion section updated include a generic statement of inclusion in with Green Book chapter and JCVI advice rather than listing all groups. Caution section updated to reflect updated advice on interval for booster vaccination in those have participated in a clinical trial of COVID-19 vaccines.

Version	Date	Summary of changes
		 Frequency section updated to align with wording on interval between booster vaccine and completion of primary course as set out in JCVI advice on the UK vaccine response to the Omicron variant from 29 November 2021
2.5	22/12/21	The following sections have been updated:
		 Cautions section updated to align with updated Green Book chapter advice on managing individuals with a history of allergy (including changes to figures 1 and 2). Cautions section updated to align with JCVI advice that women who are pregnant should be considered as falling into a clinical risk group (JCVI Priority Cohort 6 for COVID-19). Frequency section updated to align with updated Green Book chapter advice 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. Frequency section updated to align with updated Green Book chapter advice on booster vaccination where mRNA vaccines are clinically contra-indicated. Frequency section updated to indicate that booster vaccination should not be given within three months (12 weeks) of completion of the primary course. Observation following vaccination section updated to align with updated Green Book chapter and Scottish Government advice on post vaccination observation including more detail on the circumstances in which a longer observation period when indicated after clinical assessment as set out in Figure 1 and Figure 2. Appendix 3 – management of patients with a history of allergy updated to reflect changes to Figure 1.
2.6	17/01/22	 The following sections have been updated: There have been minor typographical changes to align with current COVID-19 Green Book chapter. Indication section updated to remove listing of all JCVI statements. Exclusion section updated with removal of JCVI advice on individuals with a past history of COVID-19 infection (added to cautions section). Cautions section updated to include advice on individuals with a past history of COVID-19 infection added to cautions section. Cautions section updated to align with updated Green Book chapter advice on managing individuals with a history of allergy (including changes to figure 1). Action if excluded section updated with advice on deferral of vaccination in individuals with a past history of COVID-19 infection Frequency section updated to align with updated Green Book chapter advice on third primary dose for those with severe immunosuppression with AstraZeneca COVID-19 vaccine (Vaxzevria®) where mRNA vaccines are clinically contraindicated. Warnings section advice on management of anaphylaxis modified. Additional facilities section updated with advice on management of anaphylaxis modified. Appendix 3 – management of patients with a history of allergy updated to reflect changes to Figure 1.

Version	Date	Summary of changes
2.7	01/03/22	The following sections have been updated:
		 Exclusion section updated to include those in whom immune thrombocytopenia has occurred in the four weeks after the first dose. Caution section updated to include updated figure on managing patients with a history of allergy from Green Book chapter. Caution section updated with minor changes to align with Green Book chapter advice on vaccination of clinical trial participants. Caution section updated with to align with Green Book chapter advice on vaccination of individuals with a past history of COVID-19 infection. Appendix 3 updated to align with amendments to figure 1 on managing patients with a history of allergy. Reference section has been updated.
2.8	25/03/22	The following sections have been updated:
		Advice to patient or carer section updated with advice on fever following vaccination.

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Authorisation

AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant])

This specimen Patient Group Direction (PGD) template has been produced by Public Health Scotland to assist NHS Boards. NHS Boards should amend/adapt this PGD template and must ensure that the PGD is considered and approved in line with local clinical governance arrangements for PGDs

The qualified health professionals who may administer AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) under this PGD can only do so as named individuals. It is the responsibility of each professional to practice within the bounds of their own competence and in accordance with their own Code of Professional Conduct, and to ensure familiarity with the manufacturer's product information/summary of product characteristics (SPC) for the vaccine administered in accordance with this PGD.

NHS Board governance arrangements will indicate how records of staff authorised to operate this PGD will be maintained. Under PGD legislation there can be no delegation. Administration of the vaccine has to be by the same registered healthcare practitioner who have assessed the patient under the PGD.

This PGD template has been adopted by NoS for use across all 6 NoS Health Boards.

This PGD has been produced for NoS by					
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Authorised and executively signed for use within NoS Boards by;

NHS Grampian Chief Executive	Signature	Date Signed
Professor Caroline Hiscox	1 Histor	28/03/2022

Version 2.8 valid from 25th March 2022 review date 31st December 2022.

Clinical situation

Category	Description
Indication	AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) is indicated for active immunisation against COVID-19 disease caused by SARS-CoV-2 virus in accordance with Scottish Government COVID-19 immunisation programme and recommendations given in Chapter 14a of the Immunisation Against Infectious Disease: the 'Green Book'; statements from Joint Committee on Vaccination and Immunisation (JCVI); and subsequent correspondence/publications from Scottish Government.
Inclusion criteria	AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) should be offered to all individuals aged 18 years and over in accordance with the recommendations in Chapter 14a of the Green Book and JCVI advice. National policy must be followed in relation to the priority groups eligible for
	vaccination at a particular point in time.
	Individuals are eligible for different dose schedules based on their age and recognised risk group (see the frequency section).
	JCVI currently advises that it is preferable for adults aged less than 40 years without underlying health conditions to be offered an alternative COVID-19 vaccine, if available. Individuals may make an informed choice to receive the AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) to receive earlier protection and in such cases vaccination using this PGD is permitted.
	Individuals aged 18 years to 39 years who have received their first dose with AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) with no clotting episode with concomitant thrombocytopenia are permitted to receive their second dose of AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) using this PGD.
Exclusion criteria	The vaccine should not be given to:
	 Those who have had a previous systemic anaphylaxis reaction to any COVID-19 vaccine.
	 Those who have had a prior systemic allergic reaction to any component (excipient) of AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant])
	Those in whom no valid consent has been received
	 Those who are under 18 years of age Those with evidence of current deterioration of COVID-19 symptoms,
	deferral of vaccination may be considered to avoid incorrect attribution
	 of any change in the person's underlying condition to the vaccine. Those with acute febrile illness – consider postponing immunisation
	until individual has fully recovered.
	Those who have a history of a previous episode of heparin-induced thrombocytopenia and thrombosis (HITT or HIT Type 2). These

individuals should be offered vaccination with an alternative COVID-19 vaccine.

- Those who experience a clotting episode with concomitant thrombocytopenia following the first dose of AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]).
- Those bone marrow and peripheral blood stem cell donors who have commenced GCSF, the vaccination (first or second dose) must be delayed at least until 72 hours after stem cell collection (both peripheral blood stem cell and bone marrow donation). This is a precautionary advice to avoid vaccination when receiving Granulocyte-colony stimulating factor (GCSF) and allow for post donation recovery period.
- Those with a previous history of capillary leak syndrome. These individuals may be offered vaccination with an alternative COVID-19 vaccine.
- Those in whom a third primary dose for immunosuppression or a COVID-19 booster dose is required and where the individual received mRNA vaccines in the primary course. In such cases vaccination using a patient specific direction should be considered.
- Those who developed myocarditis or pericarditis following a previous dose of COVID-19 vaccination
- Those in whom Guillain Barre Syndrome has occurred within six weeks
 of a previous dose of AstraZeneca COVID-19 Vaccine (ChAdOx1-S
 [Recombinant]). In such cases, for any future doses Pfizer or Moderna
 COVID-19 vaccines are preferred.
- Those in whom immune thrombocytopenia has occurred in the four weeks after the first dose of AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]). Such individuals should be assessed by a haematologist and the risk benefit of further vaccination and with which product should be considered on an individual basis.

Cautions/

need for further advice/ circumstances when further advice should be sought from a doctor The COVID-19 chapter of the Green Book advises that there are very few individuals who cannot receive COVID vaccine. Where there is doubt, rather than withholding vaccination, appropriate advice should be sought from the relevant specialist, or from the local immunisation or health protection team.

Based on current evidence JCVI are advising a preference for a vaccine other than AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) to be offered to healthy people under 40 years of age, including health and social care workers, unpaid carers and household contacts of immunosuppressed individuals for the primary course. In the absence of a suitable alternative these individuals may defer or choose to receive the AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) provided they have been informed and understand the relative risks and benefits. In such cases vaccination using this PGD is permitted.

Individuals over 40 years of age with past clotting episodes and those diagnosed with thrombophilia, whether or not they are on long term anti-coagulation, remain at risk of COVID-19 disease. There is no evidence that those with a prior history of thrombosis or known risk factors for thrombosis are

more at risk of developing this immune-mediated condition of thrombosis in combination with thrombocytopenia after the AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]). For most of these individuals, the risk of recurrent thrombosis due to COVID-19 infection, remains far greater than the risk of this syndrome. Therefore, individuals with such a history should be vaccinated with any of the available vaccines (provided they are not otherwise contra-indicated). The same consideration applies to those who experience common clotting episodes after the first dose of AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) but without concomitant thrombocytopenia.

Individuals with a history of allergy

Figure 1 summarises the management of patients with a history of allergy.

The AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) does not contain polyethylene glycol (PEG) but does contain a related compound called polysorbate 80. Rarely people with PEG allergy may also be allergic to polysorbate 80. However, polysorbate 80 is widely used in medicines and foods, and is present in many medicines including monoclonal antibody preparations. Some injected influenza vaccines (including the main vaccine used in over 65 year olds) contain polysorbate 80. Individuals who have tolerated injections that contain polysorbate 80 (including the adjuvanted influenza vaccine, Fluad® and the GlaxoSmithKline vaccine Fluarix®) are likely to tolerate the AstraZeneca vaccine. Advice on the management of patients with allergy is summarised in figure 1.

Special precautions as described in the COVID-19 chapter of the Green Book, and consideration of the possibility of undiagnosed PEG-allergy, is required for individuals with:

- 1. 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)
- 3. history of idiopathic anaphylaxis

Individuals with the possibility of undiagnosed PEG-allergy (as above) should not be vaccinated with COVID-19 mRNA vaccine (Pfizer or Moderna), except on the expert advice of a relevant specialist, local immunisation or health protection team is that vaccination should proceed. AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) can be used as an alternative (unless otherwise contraindicated), particularly if they previously tolerated the adjuvanted influenza vaccine. In these circumstances, AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]). should be administered in a setting with full resuscitation facilities (such as a hospital), and observe for 30-minutes.

The COVID-19 chapter of the Green Book states 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. Observation for 15 minutes is recommended.

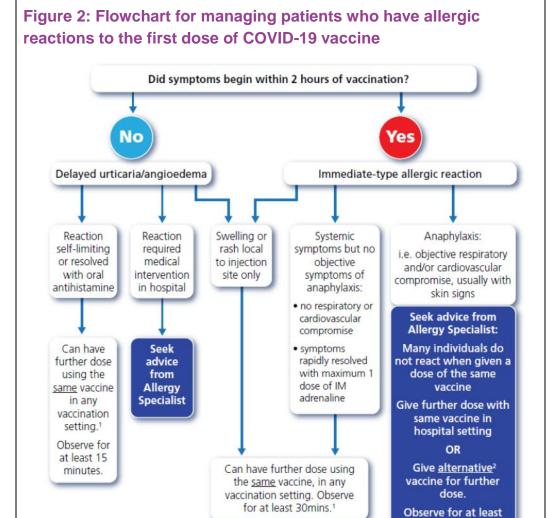
Appendix 3 provides an accessible version of Figure 1.

No specific management is required for individuals with a family history of allergies

Figure 1: Management of patients with a history of allergy

	Proceed with vaccination (no special precautions)	Special precautions	Vaccination contra-indicated
PATIENT CHARACTERISTICS	 previous allergic reaction (including anaphylaxis) to a food, insect sting and most medicines (where trigger has been identified) previous non-systemic reaction to a vaccine hypersensitivity to non- steroidal anti-inflammatory drugs e.g. aspirin, ibuprofen mastocytosis 	 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 PEG allergy) history of anaphylaxis to a vaccine, injected antibody preparation or a medicine likely to contain PEG (e.g. depot steroid injection, laxative) history of idiopathic anaphylaxis 	 prior anaphylaxis reaction to COVID-19 vaccine prior systemic allergic reaction to a component of the vaccine (for known PEG allergy see text above)
ACTIONS	 proceed with vaccination in any setting some individuals may be reassured by being observed for 15 minutes (may not be required if previously tolerated the same vaccine) some patients (e.g. those with mastocytosis) may benefit from pretreatment with anti-histamine to reduce allergic symptoms 	 consider possibility of PEG allergy and seek allergy advice if needed a person has previously tolerated a dose of the same vaccine, it is safe to administer in any setting. Otherwise consider giving vaccine and observe for 30 minutes 	 refer to allergist or other appropriate specialist consider administration of the implicated mRNA vaccine under medical supervision in hospital, or, where reaction was to AstraZeneca vaccine give alternative vaccine in any setting consider observation for 30 minutes

Figure 2 shows the Green Book Chapter flowchart for managing patients who have allergic reactions to the first dose of COVID-19 vaccine.



¹ Consider pre-treatment with non-sedating antihistamine, at least 30mins prior to vaccination

² If reaction was to AstraZeneca vaccination, complete or boost with an mRNA vaccine. If reaction was to an mRNA vaccine, give the same or alternative mRNA vaccine in hospital setting.

Those with an anaphylaxis immediate-type allergic reaction are excluded from receiving vaccination under this PGD – a patient specific direction is required if further doses are offered.

Individuals with a bleeding history

Individuals with a bleeding disorder may develop a haematoma at the injection site (see Route of Administration).

Co-administration with other vaccines

As all of the early COVID-19 vaccines are considered inactivated (including the AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]), where individuals in an eligible cohort present having recently received another inactivated or live vaccine, COVID-19 vaccination should still be given. The same applies for most other live and inactivated vaccines where COVID-19

30mins.1

vaccination has been received first or where a patient presents requiring two or more vaccines. It is generally better for vaccination to proceed to avoid any further delay in protection and to avoid the risk of the patient 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).

An exception to this is shingles vaccination, where a seven-day interval should ideally be observed given the potential for an inflammatory response to COVID-19 vaccine interfere 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, patients 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 two will avoid confusion over systemic side effects.

Syncope

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.

Pregnancy and breastfeeding

JCVI advise there is no known risk associated with giving these types of vaccines during pregnancy. These vaccines cannot replicate, so they cannot cause infection in either the woman or the unborn child.

Although clinical trials on the use of COVID-19 vaccines during pregnancy are not advanced, the available data do not indicate any harm to pregnancy. JCVI has therefore advised that women who are pregnant be considered as falling into a clinical risk group (JCVI Priority Cohort 6 for COVID-19 vaccination. There is now extensive post-marketing experience of the use of the Pfizer BioNTech and Moderna vaccines in the USA with no safety signals so far. These vaccines are therefore the preferred vaccines to offer to pregnant women (for those under 18 years Comirnaty® (COVID-19 mRNA vaccine, Pfizer/BioNTech) is preferred). Clinicians (such as obstetricians, mid-wives, GPs or other healthcare professionals authorised to offer COVID-19 vaccination) should discuss the risks and benefits of vaccination with the woman, who should be told about the limited evidence of safety for the vaccine in pregnancy.

Pregnant women who have already received a dose of AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) can complete with the same vaccine or with an mRNA product.

There is no known risk associated with giving non-live vaccines 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 and protective antibodies have been detected in breast milk. The developmental and health benefits of breastfeeding should be considered along with the woman's clinical need for immunisation against COVID-19.

Clinical trial participants

Individuals who have participated in a clinical trial of either primary or booster COVID-19 vaccines 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 three months after the dose considered as the final primary dose or the final revaccination (if the latter is required for certification purposes).

Individuals with a 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.

As clinical deterioration can occur up to two weeks after infection, vaccination of adults and high risk children should ideally be deferred until clinical recovery to around four weeks after onset of symptoms or four weeks from the first confirmed positive specimen to avoid confusing the differential diagnosis. 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 or epidemiological features to suggest the episode was COVID-19 infection. The four week interval 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. Currently, the JCVI consider that, in care home residents and the housebound, there may be an advantage in offering vaccination to some individuals with recent confirmed COVID-19, without a four-week deferral, where individuals are clinically stable and when infection control procedures can be maintained. These populations are likely to be highly vulnerable and will facilitate vaccination without the need for multiple visits.

Action if excluded	Specialist advice should be sought on the vaccine and circumstances under which it could be given as vaccination using a patient specific direction may be indicated.
	In case of postponement due to acute illness, advise when the individual can be vaccinated and ensure another appointment is arranged.
	In case of deferral due to COVID-19 symptoms or recent positive COVID test advise when the individual can be vaccinated and how future vaccination may be accessed.
	Document the reason for exclusion and any action taken in accordance with local procedures.
Action if patient declines	Advise the individual/carer about the protective effects of the vaccine, the risks of infection and potential complications if not immunised.
	Advise how future immunisation may be accessed if they subsequently decide to receive the COVID-19 vaccine
	Document patient's declined consent and advice given.

Description of treatment

Category	Description
Name of medicine	AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]), solution for injection in a multidose container AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant])
Form/strength	AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) solution for injection multidose vials containing: 5mL of solution in a 10-dose vial; or 4mL of solution in an 8-dose vial
Route of administration	Each vial contains at least the number of doses stated. It is normal for liquid to remain in the vial after withdrawing the final dose. When low dead volume syringes and/or needles are used, the amount remaining in the vial may be sufficient for an additional dose. 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. AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) must be administered by intramuscular (IM) injection preferably into the deltoid area of

Category	Description
	the upper arm. Where administration into the deltoid is not possible the anterolateral thigh can be considered.
	Inspect visually prior to administration and ensure appearance is consistent with the description in the manufacturer's product literature or summary of product characteristics.
	Individuals with bleeding disorders may be vaccinated intramuscularly if, in the opinion of a doctor familiar with 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 is below the upper level of the therapeutic range, can receive intramuscular vaccination. A fine needle (23 or 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/parent/carer should be informed about the risk of haematoma from the injection.
	The site at which each vaccine was given should be noted in the individual's records.
Dosage	The dose of AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) is 0.5mL
Frequency	AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) course consists of two separate doses of 0.5mL each, a minimum of 28 days apart.
	For both AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) 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 eight weeks between doses of all the available COVID-19 vaccines where a two-dose primary schedule is used. Operationally, using the same minimum interval for all products will simplify booking, and will help to ensure a good balance between achieving rapid and long-lasting protection.
	If an interval longer than the recommended interval is left between doses in the two dose primary schedule, the second dose should still be given (preferably using the same vaccine as was given for the first dose if possible). The course does not need to be restarted.
	The main exception to the eight-week lower interval would be those about to commence immunosuppressive treatment. In these individuals, the minimal

Category	Description
	intervals outlined above may be followed to enable the vaccine to be given whilst their immune system is better able to respond.
	Individuals who are about to receive planned immunosuppressive therapy should be considered for vaccination prior to commencing therapy (ideally at least two weeks before), when their immune system is better able to make a response. Where possible, it would also be preferable for the 2-dose schedule to be completed prior to commencing immunosuppression. This would entail offering the second dose at the recommended minimum for that vaccine (three or four weeks from the first dose) to provide maximum benefit that may not be received if the second dose was given during the period of immunosuppression.
	Evidence suggests that those who receive mixed schedules, including mRNA and AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) make a good immune response, although rates of side effects with a heterologous second dose are higher. Accumulating evidence now supports the use of heterologous schedules for primary immunisation, and these are now recognised by the European Medicines Agency. 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.
	Severe immunosuppression
	Those who have this vaccine previously and identified as meeting the definition for severe immunosuppression in proximity of their first or second vaccine doses in the primary schedule, in line with specialist advice, for a third primary dose (as defined in COVID-19 chapter of Green Book) The third primary dose should be given at least 8 weeks after the second dose, with special attention paid to current or planned immunosuppressive therapies guided by the following principles: a) where possible the third primary dose should be delayed until two weeks after the period of immunosuppression, in addition to the time period for clearance of the therapeutic agent, b) if not possible, consideration should be given to vaccination during a treatment 'holiday' or at a nadir of immunosuppression between doses of treatment.
	For those aged over 18 years, JCVI advises a preference for mRNA vaccines - Pfizer BioNTech (Comirnaty®) or Moderna (Spikevax®) - for the third primary dose for those with severe immunosuppression. Pfizer BioNTech (Comirnaty®) is preferred for 12-17 year olds. AstraZeneca COVID-19 vaccine (Vaxzevria®) is an option for individuals who have received this vaccine previously where mRNA vaccines are clinically contraindicated. In exceptional circumstances, persons aged 40 years or over who received a mRNA COVID-19 vaccine

Category	Description
	previously may be offered a third dose of AstraZeneca Vaxzevria vaccine following a decision by a health professional on a case-by-case basis.
	Booster vaccination
	Booster vaccination should not be given within three months (12 weeks) of completion of the primary course.
	The JCVI have advised that a full dose (30µg) of Pfizer-BioNTech vaccine or a half dose (50µg) of the Moderna COVID-19 vaccine should be offered for boosting irrespective of the vaccine used for the primary course. Both vaccines are suitable for boosting adults aged 18 years or over, with Pfizer BioNTech preferred for those aged 16-17 years and those aged 12-15 years in clinical risk groups. Both vaccines have been shown to give good immune responses in those already primed. The half dose of Moderna and is expected to have a lower rate of side effects (including myocarditis) than a full dose.
	Where mRNA vaccines are clinically contra-indicated, vaccination with AstraZeneca vaccine may be considered in those who had received at least one dose of this vaccine previously.
	Severely immunosuppressed individuals (aged 12 years and over) who have completed their primary course (three doses) should be offered a booster dose with a minimum of three months between the third primary and booster dose. Those who have not yet received their third dose may be given the third dose now (provided there has been an interval of at least 8 weeks since the second primary dose) to avoid further delay. A fourth dose can be given in three months, in line with the clinical advice on optimal timing.
Duration of treatment	See Dose and frequency of administration above.
Maximum or minimum treatment period	See Frequency of administration above.
Quantity to supply/administer	Administer 0.5mL per administration.
▼ black triangle medicines	AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) did not have a UK marketing authorisation at the time this PGD was written and is authorised for temporary supply in the UK in accordance with a Regulation 174 authorisation.
	All adverse reactions occurring in individuals of any age after vaccination should be reported to the Medicines & Healthcare products Regulatory Agency (MHRA) using the Coronavirus Yellow Card Scheme. Anyone can report a suspected adverse reaction to the MHRA using the Coronavirus Yellow Card reporting scheme https://coronavirus-yellowcard.mhra.gov.uk/

Category	Description
Legal category	AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) is provided temporary authorisation by the MHRA for supply in the UK under regulation 174 and 174A, pending UK marketing authorisation.
	The regulation 174 authorised product is categorised as a prescription only medicine (POM).
Is the use out with the SPC?	AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) is supplied in the UK in accordance with regulation 174 and did not have a UK marketing authorisation at the time of writing this PGD.
	As part of the consent process, inform the individual/carer that this vaccine does not have a UK marketing authorisation but has been authorised for temporary supply in the UK by the MHRA and that it is being offered in accordance with national guidance.
	The vaccine manufacturer's information for UK healthcare professionals states that the vaccine should be used with caution in those with a history of cerebral venous sinus thrombosis or antiphospholipid syndrome. The JCVI has further advised that there is no evidence that those with a prior history of thrombosis or known risk factors for thrombosis are more at risk of developing this immune-mediated condition of thrombosis in combination with thrombocytopenia after the AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]).
Storage requirements	AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) must be stored in a fridge between +2 to +8°C in accordance with manufacturer's advice.
	During storage it is recommended that the vials are stored in the original packaging/cartons, away from direct sunlight to protect from light and kept upright.
	NHS Board guidance on Storage and Handling of vaccines should be observed.
	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 use or appropriate disposal.
	After first use – use as soon as practically possible and within six hours. The vaccine may be stored between +2 and +25°C during the in-use period in accordance with manufacturer's advice. The vaccine vial has space to write the date and time that the vial was first punctured; write this on the vial label.
	The manufacturer may advise of updated storage requirements and product stability as new data becomes available, vaccine may be stored in accordance with updated recommendations from the manufacturer.

Category	Description
Additional information	Minor illnesses without fever or systemic upset are not valid reasons to postpone immunisation. If an individual is acutely unwell, immunisation should be postponed until they have fully recovered.
	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.
	Having prolonged COVID-19 symptoms is not a contraindication to receiving COVID-19 vaccine but if the patient 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.

Adverse reactions

Category	Description
Warnings including possible adverse reactions and management of these	From early phase trials, mild pain and tenderness at the injection site was common with COVID-19 Vaccine (ChAdOx1-S [recombinant]) AstraZeneca occurring in 88% of 18-55 year olds, 73% of 56-69 year olds and 61% of people aged 70 years or over; similar levels were reported after each dose. Short lived systemic symptoms including fatigue and headache were also common but decreased with age, being reported in 86%, 77%, and 65% of those aged 18-55, 56-69 and 70 years or over respectively; most of these were classified as mild or moderate. These reactions were unusual after the second dose. Mild fever (>38°C) was recorded in the first 48 hours for around a quarter of younger participants but was not reported in those over 55 years of age or in any age group after the second dose. Fever can be modified by the prophylactic use of paracetamol, which does not affect the immune response to this vaccine. In the phase 3 study, injection site reactions, mild fever, headache, myalgia and arthralgia occurred in more than 10% of vaccinees. Less than 1% reported lymphadenopathy or an itchy rash. Only one serious adverse event was reported as possibly linked to the vaccine; this was a case of transverse myelitis which occurred 14 days after dose 2. There was no signal to suggest that prior vaccination led to enhanced disease.
	Recently, a rare condition involving serious thromboembolic events accompanied by thrombocytopenia, has been reported after AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) vaccination. The condition presents with unusual venous thrombosis, including cerebral venous sinus thrombosis, portal vein thrombosis, and sometimes arterial thrombosis, with low platelet count and high D-dimer measurements. The condition has similarities to heparin-induced thrombocytopenia and thrombosis (HITT or HIT type 2) and patients usually have positive antibody to platelet factor 4. The majority of the events occurred between 5 and 16 days following vaccination.
	Overall, JCVI, MHRA and the WHO remain clear that the benefits of vaccination outweigh this small risk for adults aged 40 years and over, adults who are clinically extremely vulnerable and those with underlying clinical risks.
	A protocol for the management of anaphylaxis and an anaphylaxis pack must always be available whenever vaccines are given. Immediate treatment should include early treatment with intramuscular adrenaline, with an early call for help and further IM adrenaline every 5 minutes. The health professionals overseeing the immunisation service must be trained to recognise an anaphylactic reaction and be familiar with techniques for resuscitation of a patient with anaphylaxis.
	In the event of a severe adverse reaction individual should be advised to seek medical advice.
	For full details/information on possible adverse reaction, refer to manufacturer's product literature or summary of product characteristics.

Category	Description	
Reporting procedure for adverse reactions	Healthcare professionals and individuals/carers should report suspected adverse reactions to the MHRA using the Coronavirus Yellow Card reporting scheme on: https://coronavirus-yellowcard.mhra.gov.uk/	
	As this vaccine is labelled with a black triangle, all adverse reactions occurring in individuals of any age after vaccination should be reported to the MHRA using the Coronavirus Yellow Card Scheme. Anyone can report a suspected adverse reaction to the MHRA using the Coronavirus Yellow Card reporting scheme https://coronavirus-yellowcard.mhra.gov.uk/	
	Any adverse reaction to a vaccine should be documented in accordance with locally agreed procedures in the individual's record and the individual's GP should be informed.	
	Anaphylaxis is a very rare, recognised side effect of most vaccines and suspected cases should be reported via the Coronavirus Yellow Card Scheme. Chapter 8 of the Green Book gives detailed guidance on distinguishing between faints, panic attacks and the signs and symptoms of anaphylaxis. If a case of suspected anaphylaxis meets the clinical features described in Chapter 8, this should be reported via the Yellow Card Scheme as a case of 'anaphylaxis' (or if appropriate 'anaphylactoid reaction'). Cases of less severe allergic reactions (i.e. not including the clinical features of anaphylaxis) should not be reported as anaphylaxis but as 'allergic reaction'.	
	Programmatic Adverse Events should be recorded in line with local procedures and where appropriate escalated in accordance with the national framework.	
Advice to patient or carer including written information	Written information to be given to individual Provide manufacturer's consumer information leaflet/patient information leaflet (PIL) provided with the vaccine.	
	Provide copy of Public Health Scotland post-vaccination leaflet	
	Provide copy of Pregnant, planning a pregnancy or breastfeeding, a guide to COVID-19 vaccine to women of child bearing years	
	Provide copy of COVID-19 AstraZeneca vaccine and rare blood clots leaflet	
	Individual advice / follow up treatment	
	Inform the individual/carer of possible side effects and their management.	
	 Inform the individual/carer that anyone who has any of the following symptoms from around four days to four weeks after vaccination should seek medical advice urgently: 	
	 a new, severe headache which is not helped by usual painkillers or is getting worse 	

Category	Description
	 an unusual headache which seems worse when lying down or bending over or may be accompanied by: blurred vision, nausea and vomiting; difficulty with your speech; weakness, drowsiness or seizures.
	 new, unexplained pinprick bruising or bleeding
	 shortness of breath, chest pain, leg swelling or persistent abdominal pain
	 Vaccinated individuals should be advised that it is common to develop a fever after vaccination and that this normally happens within 48 hours after the vaccination and usually goes away within 48 hours. This is a common, expected reaction, and self-isolation and testing for COVID- 19 are not required.
	 Vaccinated individuals should be advised that if the fever started 48 hours after the vaccination or lasts longer than 48 hours, they should seek medical advice as they may have COVID-19 or another infection. They may be advised to take a COVID-19 test.
	 Vaccinated individuals should be advised that feeling generally unwell, shivery, achy and tired were also symptoms commonly reported by vaccine recipients in the clinical trials. Generally, these symptoms were found to resolve within one to two days without treatment but paracetamol can be taken if necessary to relieve any of these symptoms.
	 As has always been recommended, any fever after vaccination should be monitored and if individuals are concerned about their health at any time, they should seek advice from their GP or NHS24
	 The individual should be advised to seek medical advice in the event of a severe adverse reaction.
	 Inform the individual that they can report suspected adverse reactions to the MHRA using the Yellow Card reporting scheme on: http://yellowcard.mhra.gov.uk
	 Immunosuppressed individuals should be advised that they may not make a full immune response to the vaccine and they should continue to take appropriate measures to protect themselves against this infection.
	 When administration is postponed advise the individual how future vaccination may be accessed
	When applicable, advise the individual/carer when to return for vaccination or when a subsequent vaccine dose is due.

Category	Description
Observation following vaccination	Following COVID-19 vaccine administration, individuals should be observed for any immediate reactions whilst they are receiving any verbal post vaccination information and exiting the centre.
	According to the Summaries of Product Characteristics, 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 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. There is no routine requirement for observation following COVID-19 Vaccine AstraZeneca.
	The Scottish Government has made further recommendations that all doses of mRNA COVID-19 vaccines be followed by a 5 minute observation period.
	A longer observation period when indicated after clinical assessment as set out in Figure 1 and Figure 2 (above).
	Vaccinated individuals should be informed about 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.
	As syncope (fainting) can occur following vaccination, all vaccinees should either be driven by someone else or should not drive for 15 minutes after vaccination.
Follow up	Not applicable
Additional facilities	A protocol for the management of anaphylaxis and an anaphylaxis pack must always be available whenever vaccines are given. Immediate treatment should include early treatment with intramuscular adrenaline, with an early call for help and further IM adrenaline every 5 minutes. The health professionals overseeing the immunisation service must be trained to recognise an anaphylactic reaction and be familiar with techniques for resuscitation of a patient with anaphylaxis.

Characteristics of staff authorised under the PGD

Category	Description			
Professional qualifications	The following classes of registered healthcare practitioners are permitted to administer AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant])			
	 nurses 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, 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.			
Specialist	Persons must only work under this PGD where they are competent to do so.			
competencies or qualifications	All practitioners operating this PGD must:			
	 demonstrate appropriate knowledge and skills to work under the PGD for the administration of COVID-19 vaccine. 			
	 have met the requirements of the NES Proficiency document -COVID- 19 vaccine administration for registered staff or the NES Proficiency document –COVID-19 vaccine administration. This NES Proficiency document can be found at TURAS Learn at: https://learn.nes.nhs.scot/37676/immunisation/covid-19-vaccines 			
	All persons operating this PGD:			
	must be authorised by name by their employer as an approved person under the current terms of this PGD before working to it			
	 must be familiar with the vaccine product and alert to changes in the manufacturers product information/summary of product information, 			
	 must be competent to undertake immunisation and to discuss issues related to immunisation to assess patients for vaccination and obtain consent 			
	must be competent in the correct storage of vaccines and management of the cold chain if receiving, responsible for, or handling the vaccine			
	must be competent in the recognition and management of anaphylaxis or under the supervision of persons able to respond appropriately to immediate adverse reactions			

Category	Description			
	must have access to the PGD and associated online resources			
	should fulfil any additional requirements defined by local policy			
	All practitioners operating under the PGD are responsible for ensuring they remain up to date with the use of COVID-19 vaccines included. If any training needs are identified these should be discussed with the individuals in the organisation responsible for authorising individuals to act under the PGD			
	Employer			
	The employer is responsible for ensuring that persons have the required knowledge and skills to safely deliver the activity they are employed to provide under this PGD			
	As a minimum, competence requirements stipulated in the PGD must be adhered to.			
Continuing education and training	All practitioners operating under the PGD are responsible for ensuring they remain up to date with the use of COVID-19 vaccines included. If any training needs are identified these should be discussed with the individuals in the organisation responsible for authorising individuals to act under this PGD.			

Audit trail

Name	Description			
Record/ audit trail	Record:			
	that valid informed consent was given			
	 name of individual, address, date of birth and GP with whom the individual is registered 			
	 name of person that undertook assessment of individual's clinical suitability for vaccine 			
	name of person that administered the vaccine			
	name and brand of vaccine			
	date of administration			
	dose, form and route of administration of vaccine			
	batch number			
	where possible 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			
	administered under PGD			
	Records should kept line with local procedures. Ideally records should be kept within the NHS Scotland COVID-19 vaccine administration app.			
	Local policy should be followed to encourage information sharing with the individual's General Practice.			
	All records should be clear, legible and contemporaneous.			

Additional references

Name	Description
Additional references	Immunisation against Infectious Disease [Green Book] https://www.gov.uk/government/organisations/public-health-england/series/immunisation-against-infectious-disease-the-green-book
	Immunisation against Infectious Disease [Green Book] COVID-19 https://www.gov.uk/government/publications/covid-19-the-green-book-chapter-14a
	Manufacturer's product information/ Summary of Product Characteristics https://www.gov.uk/government/publications/regulatory-approval-of-covid-19-vaccine-astrazeneca
	Educational resources for registered professionals produced by National Education for Scotland https://learn.nes.nhs.scot/37676/immunisation/covid-19-vaccines
	All relevant JCVI statements All relevant Scottish Government advice including the relevant CMO letter(s)



Appendix 1

Healthcare Professional Agreement to Administer Vaccine Under Patient Group Direction

l:		
	(Insert name)	
Working within:	e.g. Health Board, Are Practice	ea,
Agree to administer the vaccin	e contained within the following Patient Group Direction:	
COVID-19 Vaccine Healthcare Profe Highland, Orkn	ction For The Administration of AstraZene e (ChAdOx1-S [Recombinant]) by Approve essionals Working Within NHS Grampian, ey, Shetland, Tayside and Western Isles n 2.8 valid from 25 th March 2022)	
the vaccine under the above d	ate training to my professional standards enabling me to adrirection. I agree not to act beyond my professional compete of the direction. PGDs do not remove inherent profession .	ence, nor
Signed:		
Print Name:		
Date:		
Profession:		
Professional Registration number/PIN		

Appendix 2

Healthcare Professionals Authorisation to Administer Vaccine Under Patient Group Direction

The Lead manager/Professional of each clinical area is responsible for maintaining records of all clinical areas where this PGD is in use, and to whom it has been disseminated.

The Senior Nurse/Professional who approves a healthcare professional to administer the vaccine under this PGD is responsible for ensuring that he or she is competent, qualified and trained to do so, and for maintaining an up-to-date record of such approved persons.

The Healthcare Professional that is approved to administer the vaccine under this PGD is responsible for ensuring that he or she understands and is qualified, trained and competent to undertake the duties required. The approved person is also responsible for ensuring that administration is carried out within the terms of the direction, and according to his or her individual code of professional practice and conduct.

Patient Group Direction For The Administration of AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) by Approved Healthcare Professionals Working Within NHS Grampian, Highland, Orkney, Shetland, Tayside and Western Isles (Version 2.8 valid from 25th March 2022)

Local clinical area(s) where the listed healthcare professionals will operate under this PGD:

Name of Healthcare Professional	Signature	Date	Name of Manager	Signature	Date

Patient Group Direction For The Administration of AstraZeneca COVID-19 Vaccine (ChAdOx1-S [Recombinant]) by Approved Healthcare Professionals Working Within NHS Grampian, Highland, Orkney, Shetland, Tayside and Western Isles (Version 2.8 valid from 25th March 2022)

Name of Healthcare Professional	Signature	Date	Name of Manager	Signature	Date

Appendix 3 – Management of Patients with a History of Allergy

	Proceed with vaccination (no special precautions)	Special precautions	Vaccination contra-indicated
Patient characteristics	 previous allergic reaction (including anaphylaxis) to a food, insect sting and most medicines (where trigger has been identified) previous non-systemic reaction to a vaccine hypersensitivity to non-steroidal anti-inflammatory drugs e.g. aspirin, ibuprofen mastocytosis 	 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 a PEG allergy) history of anaphylaxis to a vaccine, injected antibody preparation or a medicine likely to contain PEG (e.g. depot steroid injection, laxative) history of idiopathic anaphylaxis 	 prior anaphylaxis to the COVID-19 vaccine prior systemic allergic reaction to a component of the vaccine, (for known PEG allergy see Green Book chapter 14a COVID-19)
Actions	 proceed with vaccination as normal, according to local guidelines some individuals may be reassured by being observed for 15 minutes (may not be required if previously tolerated the same vaccine) some patients (e.g. those with mastocytosis) may benefit from pretreatment with anti-histamine to reduce allergic symptoms 	 consider possibility of PEG allergy and seek allergy advice if needed a patient has previously tolerated a dose of the same vaccine, it is safe to administer in any setting Otherwise Consider giving vaccine and observe for 30 minutes 	 refer to allergist or other appropriate specialist consider administration of the implicated mRNA vaccine under medical supervision in hospital, or, where the reaction was to AstraZeneca vaccine give an alternative vaccine in any setting consider observation for 30 minutes