PASS Protocol

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A Phase IV Non-Interventional Enhanced Active Surveillance Study of Adults Vaccinated with AZD1222

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PASS INFORMATION

Title	A Phase IV Non-Interventional Enhanced Active Surveillance Study of Adults Vaccinated with AZD1222				
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Research question and objectives	The purpose of this study is to assess the safety and tolerability of AZD1222 in adults vaccinated in real-world settings.				
	Primary objective:				
	To estimate the incidence of SAEs, AESIs, and medically-attended AEFIs after at least one IM dose of AZD1222 for 3 months after vaccination.				
	Secondary objectives:				
	 To estimate the incidence of SAEs, AESIs, and medically-attended AEFIs after at least one IM dose of AZD1222 for up to 18 months after vaccination. To estimate the incidence of SAEs, AESIs, and medically-attended AEFIs after at least one IM dose of AZD1222 in participants by age group. To estimate the incidence of SAEs, AESIs, and medically-attended AEFIs after at least one IM dose of AZD1222 in participants with select comorbidities. To estimate the frequency of select pregnancy outcomes in women vaccinated with AZD1222 during pregnancy or within 45 days of the estimated conception date. To estimate the frequency of select outcomes at birth and up to 12 months of age in neonates/infants born to mothers vaccinated with AZD1222 during pregnancy or within 45 days of the estimated conception date. 				
Countries of study	Germany, France, Spain, and Sweden				
Author	PPD , AstraZeneca AB				

AESI, adverse event of special interest; AEFI, adverse event following immunisation; EU, European Union; IM, intramuscular; PAS, post-authorisation studies; PASS, post-authorisation safety study; SAE, serious adverse event.



1. TABLE OF CONTENTS

TITLE P	AGE	1
PASS IN	FORMATION	2
1.	TABLE OF CONTENTS	3
2.	RESPONSIBLE PARTIES	7
3.	ABSTRACT	7
4.	AMENDMENTS AND UPDATES	10
5.	MILESTONES	
6.	RATIONALE AND BACKGROUND	
6.1	Rationale for the Study	
6.2	AZD1222 Background	
7.	RESEARCH QUESTION AND OBJECTIVES	
8.	RESEARCH METHODS	15
8.1	Definitions	15
8.2	Study Design	
8.3	Setting	
8.3.1	Vaccination Sites	
8.3.2	Study Population	19
8.3.2.1	Eligibility Criteria	19
8.3.2.2	Key Subpopulations	
8.3.3	Participant Withdrawal and Lost to Follow-up	20
8.4	Variables	
8.4.1	Study Variables to be Collected	
8.4.2	Variables for Identifying Subpopulations	
8.4.2.1	Adults Aged ≥ 65 Years and Other Age Groups	
8.4.2.2	Pregnant Women	
8.4.2.3	Breastfeeding Women	25
8.4.2.4	Immunocompromised Participants and Participants with Autoimmune or	25
8.4.2.5	Inflammatory Disorders	25 25
8.4.3	Frail Participants with Comorbidities Outcome Measures	
8.4.3.1	Adverse Events	
8.4.3.2	Pregnancy Outcomes	
8.4.3.3	CC!	
8.4.3.4	CCI	27
8.4.3.5	Antipyretic/Pain Reliever Use	28
8.5	Data Sources	
8.5.1	Vaccination Sites.	
8.5.2	Participants: Study App, Web Portal, and Call Centre	
8.5.3	Emergency Contacts and Proxies	

8.5.4 8.5.5	Medical Records External Data		
8.6			
8.7			
8.7.1	- Control of the Cont		
8.7.2	Study Call Centre		
8.7.3	Record Retention	30	
8.8	Data Analysis	31	
8.9	Quality Control	34	
8.10	Limitations of the Research Methods	34	
8.11	Other Aspects	37	
9.	PROTECTION OF HUMAN SUBJECTS	37	
9.1	Ethical Conduct	37	
9.2	Informed Consent	37	
9.3	Participant Data Protection.	38	
9.4	Registration of Study on Public Websites	38	
10.	MANAGEMENT AND REPORTING OF ADVERSE EVENTS/ ADVERS REACTIONS		
10.1	Definitions	38	
10.1.1	Adverse Events		
10.1.2	Serious Adverse Events		
	*		
10.1.5			
10.2			
10.3			
10.4	Adverse Event Coding		
10.5	<u> </u>		
10.6	Independent Adjudication Committee		
11.	PLANS FOR DISSEMINATING AND COMMUNICATING STUDY RESULTS	44	
12.	REFERENCES	45	
LIST O	OF TABLES		
Amendm	ents and Key Updates	10	
Table 1	Study Milestones	12	
Table 2	1.6 Study Size		

AZD1222, D8111	K00003	2.0, 11 May 202	
Table 3	Data Collection Plan for Key Variables and Information	21	
Table 4	Study Limitations and Mitigations	35	
Table 5	Adverse Events of Special Interest for AZD1222	40	
Table 6	Data Collection Plan for Key Variables and Information		
LIST OF FI	GURES		
Figure 1	Overview of the Study Design	18	
Figure 2	Adverse Event Data Collection and Reporting	43	
LIST OF A	PPENDICES		
Appendix A	List of Stand-alone Documents	47	
Appendix B	ENCePP Checklist for Study Protocols	48	
Appendix C	Participant Questionnaires	49	

LIST OF ABBREVIATIONS

Abbreviation or special term	Explanation
AE	adverse event
ADR	adverse drug reaction
AEFI	adverse event following immunisation
AESI	adverse event of special interest
AZD1222	COVID-19 Vaccine AstraZeneca
COVID-19	coronavirus disease 2019
CRO	contract research organisation
ENCePP	European Network of Centres for Pharmacoepidemiology and Pharmacovigilance
EU	European Union
GDPR	General Data Protection Regulation
GPP	Good Pharmacoepidemiology Practices
НСР	healthcare provider
CCI	CCI
IEC	Independent Ethics Committee
IM	intramuscular
MedDRA	Medical Dictionary for Regulatory Activities
PASS	post-authorisation safety studies
CCI	CCI
SAE	serious adverse event
SARS-CoV-2	severe acute respiratory syndrome coronavirus 2
UK	United Kingdom
US	United States
VAED	vaccine-associated enhanced disease
VAERD	vaccine-associated enhanced respiratory disease
WHO	World Health Organization

6 of 49

2. RESPONSIBLE PARTIES

AstraZeneca Responsible Parties

Role	Name, title, qualifications
Scientific lead, epidemiology	PPD
Operational lead	PPD
Study physician	PPD
Statistician	PPD
Pharmacovigilance	PPD
PPD	

Principal Investigator and Coordinating Investigators

The list of study investigators, qualifications, and contact information will be maintained as a standalone document and updated as needed throughout the study (Appendix A).

3. ABSTRACT

Title. A Phase IV Non-Interventional Enhanced Active Surveillance Study of Adults Vaccinated with AZD1222, version 2.0, 11 May 2021

Rationale and background. Safe, effective, and accessible vaccines are needed to prevent COVID-19. The COVID-19 Vaccine AstraZeneca (AZD1222) is a recombinant replication defective chimpanzee adenovirus expressing the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) spike protein. In Phase II and III clinical studies, AZD1222 helped to prevent COVID-19. Health authorities in some regions, including the European Union (EU) and United Kingdom (UK) have authorised AZD1222, and AstraZeneca (the Sponsor) expects additional authorisations in 2021. In addition to ongoing Phase III studies and routine pharmacovigilance, the benefit-risk profile of AZD1222 will be assessed in regional post-authorisation studies. This Phase IV enhanced safety surveillance study will collect safety and tolerability data from adults vaccinated with AZD1222 in real-world

settings in the European Union (Germany, France, Spain, and Sweden). A similar study will be conducted in the UK, and, pending approval, in the United States.

Research question and objectives. The purpose of this study is to assess the safety and tolerability of AZD1222 in adults vaccinated in real-world settings.

The primary objective of the study is to estimate the incidence of serious adverse events (SAEs), adverse events of special interest (AESIs), and medically-attended adverse events following immunisation (AEFIs) after at least one intramuscular (IM) dose of AZD1222 for 3 months after vaccination.

The secondary objectives are:

- To estimate the incidence of SAEs, AESIs, and medically-attended AEFIs after at least one IM dose of AZD1222 for up to 18 months after vaccination.
- To estimate the incidence of SAEs, AESIs, and medically-attended AEFIs after at least one IM dose of AZD1222 in participants by age group.
- To estimate the incidence of SAEs, AESIs, and medically-attended AEFIs after at least one IM dose of AZD1222 in participants with select comorbidities.
- To estimate the frequency of select pregnancy outcomes in women vaccinated with AZD1222 during pregnancy or within 45 days of the estimated conception date.
- To estimate the frequency of select outcomes at birth and up to 12 months of age in neonates/infants born to mothers vaccinated with AZD1222 during pregnancy or within 45 days of the estimated conception date.

Study design. This is a Phase IV real-world, observational, non-interventional, prospective cohort study of adults vaccinated with AZD1222. The study will use an innovative digital platform (study app and web portal) as well as a traditional call centre to collect participant responses to a series of health and well-being questionnaires over an 18-month period. Investigators and study personnel will have real-time access to enrolment trends and reported adverse events (AEs) via an investigator dashboard within the digital platform.

Research coordinators at vaccination sites will invite vaccinated adults to join the study. Participants can enrol at the vaccination site with assistance from a research coordinator or can take home a study information brochure and enrol within 28 days after the first dose of AZD1222. Research coordinators and the study call centre will be available to assist with enrolment and informed consent, as needed. Electronic consent using the study app will be an option where permitted.

Participants using the digital platform will set up a secure account, complete the enrolment questionnaires, and provide details of their vaccination to confirm eligibility. Non-digital participants will complete the enrolment questionnaires and confirm eligibility at a

vaccination site or by a telephone call to the call centre. After enrolment, participants will be contacted to complete follow-up questionnaires at timed intervals over an 18-month period after their first AZD1222 dose. Digital participants will receive push notifications or emails and non-digital participants will receive phone calls. Participants can also submit unscheduled AE reports through the digital platform and call centre.

Adverse events reported by participants will be reviewed, followed-up, and assessed by study personnel. Participants will grant permission for study personnel to contact their healthcare providers and obtain medical records. All participant data will be coded and personal identifying information removed before the data is transferred to the Sponsor's safety database. Role-based permissions will ensure only authorised personnel can view data and records containing participant identities.

Population. Participants will be adults ≥ 18 years of age who receive the AZD1222 vaccine in Germany, France, Spain, or Sweden and are able and willing to consent to participate in the study. This study will enrol all eligible participants but, in particular, will seek to enrol older adults, with a target of 50% of participants being aged ≥ 65 years. Other subpopulations of interest include pregnant women, women who are breastfeeding, immunocompromised persons, persons with an autoimmune or inflammatory disorder, and frail persons with comorbidities. The study will also aim for an approximately equal enrolment of male and female participants.

Variables. The information to be collected at enrolment will include: AZD1222 vaccination details (date, batch/lot), exposure to any other vaccines, demographics, and relevant medical history (select comorbidities, smoking history, prior COVID-19 infection), pregnancy status, breastfeeding status, and **CC**

The primary and secondary objectives assessing the safety and tolerability of AZD1222 (up to 3 months, up to 18 months, by age group, and in participants with select comorbidities) will be measured by the incidence of SAEs, AESIs, and medically-attended AEFIs.

Medically-attended AEFIs are AEs after immunisation leading to consultation with a medical doctor, hospitalisation, or an emergency room visit. The additional secondary objectives (estimating the frequency of select pregnancy outcomes and neonatal/infant outcomes) will be measured by events within the AESI medical concept "Pregnancy outcome – Maternal" (including spontaneous abortions, stillbirths, and preterm births) and within the AESI medical concept "Pregnancy outcome – Neonates" (including major congenital malformations and infants small for gestational age).

Participants will be contacted for safety outcomes at 1, 4, 8, and 14 weeks and 6, 9, 12, and 18 months after the first AZD1222 dose. Participants will be contacted to complete at 4.5 months and 15 months after the first dose.

Data sources. The main data sources for the study will be participants and their medical records. Vaccination details will be verified by a vaccination card, batch/lot number, and/or using a regional vaccination register. Participants will report all study outcomes using the study app, web portal, or call centre. Participants can also select a proxy to communicate on their behalf: a caregiver, family member, or other trusted individual. Participants will be asked for an emergency contact in case of death or incapacity.

Study size. Target enrolment is 15,000 participants.

Data analysis. This study is descriptive in nature. Distribution of participant characteristics at baseline will be described through point estimates (mean, median, rates or proportions) and the corresponding variability (interquartile range, 95% confidence intervals). The primary analysis will only include participants who enrolled within 7 days of vaccination with the first dose of AZD1222. For the primary and secondary analyses, the cumulative incidence of each outcome measure will be computed as the proportion of participants who reported an event among all AZD1222-vaccinated participants who completed each study-defined follow-up interval, as well as among all AZD1222-vaccinated participants regardless of completion status, in combination with corresponding patient-years. Where feasible, incidence rates will be calculated. Subgroup evaluations and sensitivity analyses will also be performed.

Milestones. The start of data collection (first participant enrolled) is planned for June 2021. Quarterly interim reports are planned, beginning at 1 month after the first enrolment and then every 3 months thereafter. The Sponsor expects to complete the final study report in 2024.

4. AMENDMENTS AND UPDATES

Amendments and Key Updates

Number	Date	Section of study protocol	Amendment or update	Reason
1	11 May 2021	Section 6.2	The text describing the important identified risks and important potential risks of AZD1222 was updated.	To align the protocol with the updated Safety Specification in the EU RMP (version 3), including changes to risks.
		Section 8.2	Text added to clarify that participants may also receive messages to maintain contact and ensure study retention.	Clarification.
		Section 8.4.1	In the footnotes to Table 3, Data Collection Plan, the time interval for participants to receive reminders for the safety outcome follow-ups was revised from "2 to 8 weeks" to "1 to 12 weeks".	Correction.

Amendments and Key Updates

Number	Date	Section of study protocol	Amendment or update	Reason
1	11 May 2021	Section 8.4.3; Section 8.8	A new subsection (Section 8.4.3.5) concerning antipyretic/pain reliever use was added to the variables section. Also, in the data analysis description (Section 8.8), "Use of antipyretics/pain-reliever medication" was added to the subgroup analyses.	Clarification.
		Section 10.1.4	Table 5, the list of Adverse Events of Special Interest for AZD1222 was updated to replace "stroke and other cerebrovascular events, venous thromboembolism" with "embolic and thrombotic events", and to add "capillary leak syndrome (CLS)" as an AESI.	To align the protocol with the updated AESI list in the EU RMP (version 3).
		Section 10.1.4	Table 5, the list of Adverse Events of Special Interest for AZD1222 was updated to clarify that the AESI "multisystem inflammatory syndrome" applies to both children and adults.	To align the protocol with the updated AESI list in the EU RMP (version 3).
		Sections 10.2 and 10.6	The statement in Section 10.6 suggesting the Independent Adjudication Committee would give advice to study personnel on specific events was removed and a related statement in Section 10.2 was revised to state that study personnel with medical expertise will fulfil this role.	Correction.
		Section 10.6	The list of events to be reviewed by the Independent Adjudication Committee was updated to include embolic and thrombotic events, thrombosis in combination with thrombocytopenia, and thrombocytopenia.	These events will now be independently adjudicated.

AESI, adverse event of special interest; EU, European Union, RMP, risk management plan.

5. MILESTONES

Table 1Study Milestones

Milestone	Planned dates ^a
Start of data collection	June 2021
Interim report with data cut-off 1 month after first enrolment	Q3 2021
Interim report with data cut-off 3 months after first enrolment	Q3 2021
Interim reports every 3 months thereafter	TBD
Registration in the EU PAS register	Q2 2021
End of data collection	Q1 2024
Final report of study results	Q3 2024

Planned dates are the Sponsor's best estimates based on circumstances at the time of writing the protocol. As the COVID-19 pandemic is a dynamic situation, milestones and dates may be amended if recruitment forecasts change.
 EU, European Union; PAS, post-authorisation studies; TBD, to be determined.

6. RATIONALE AND BACKGROUND

6.1 Rationale for the Study

Safe, effective, and accessible vaccines to prevent COVID-19 are needed to reduce the spread of the disease and mitigate the public health and socioeconomic crises that have resulted from the pandemic. The COVID-19 Vaccine AstraZeneca (AZD1222; formerly ChAdOx1 nCoV-19) helped prevent COVID-19 in Phase II and III clinical studies. Health authorities in some regions, including the European Union (EU) and United Kingdom (UK), have authorised AZD1222 under conditional marketing authorisations or emergency use provisions, and AstraZeneca (the Sponsor) expects additional authorisations in 2021. In addition to ongoing Phase III studies, the Sponsor will continue to assess the benefit-risk profile of AZD1222 through post-authorisation safety studies and routine pharmacovigilance.

This Phase IV, non-interventional, enhanced active safety surveillance study will collect safety and tolerability data from 15,000 participants vaccinated with AZD1222 in real-world settings in 4 countries in the EU: Germany, France, Spain, and Sweden. A similar study will be conducted in the UK (10,000 participants), and, pending approval, a third similar study in the United States (US; 15,000 participants).

Germany, France, Spain, and Sweden have each developed a national vaccine deployment plan, including establishing priority groups (ECDC 2020a) In general, these plans prioritise elderly people, healthcare workers, and persons with certain comorbidities (ECDC 2020a). Until the vaccine supply is sufficient for universal vaccination, prioritisation recommendations will impact which populations are vaccinated in real-world settings (ECDC 2020b).

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6.2 AZD1222 Background

Coronaviruses are enveloped viruses with positive-sense single-stranded RNA genomes. The spike glycoprotein is a coronavirus surface protein involved in receptor binding and mediating virus entry into host cells during infection (Li 2016). AZD1222 is a recombinant replication defective chimpanzee adenovirus expressing the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) spike glycoprotein. Development of AZD1222 was initiated by the University of Oxford with subsequent transfer of development activities to the Sponsor.

The University of Oxford is investigating the safety, immunogenicity, and efficacy of AZD1222 in 5 ongoing adult studies in the UK, Brazil, South Africa, and Kenya, and one ongoing paediatric study in the UK. A pooled, interim analysis of the 4 ongoing studies found AZD1222 to have an acceptable safety profile in adults following vaccination (Voysey et al 2021). The incidence of serious adverse events (SAEs) and adverse events of special interest (AESIs) was similar between the analysis groups (participants receiving AZD1222 vs controls) and all 4 of the non-COVID-19 deaths (1 in an AZD1222 recipient and 3 in control recipients) were considered unrelated to the study product (Voysey et al 2021). Local and systemic reactogenicity of AZD1222 was tolerable and decreased in incidence and severity in older adults and after the second dose (Voysey et al 2021). Common local symptoms have included injection-site pain and tenderness and common systemic symptoms have included fatigue and headache (Folegatti et al 2020, Ramasamy et al 2021, Barrett et al 2020).

In addition to the Oxford studies, the Sponsor has 3 ongoing clinical studies, including a Phase III double-blind placebo-controlled study.

The important identified risks for AZD1222 include anaphylaxis and thrombosis in combination with thrombocytopenia. The important potential risks of AZD1222 are nervous system disorders (including immune-mediated neurological conditions), vaccine-associated enhanced disease (VAED) (including vaccine-associated enhanced respiratory disease [VAERD]), and thrombosis. Areas of missing information include use of AZD1222 during pregnancy and while breastfeeding, use in immunocompromised persons, use in frail persons with comorbidities, use in persons with autoimmune or inflammatory disorders, interactions with other vaccines, and long-term safety.

7. RESEARCH QUESTION AND OBJECTIVES

The purpose of this study is to assess the safety and tolerability of AZD1222 in adults vaccinated in real-world settings. Table 2 lists the study objectives and outcome measures.

 Table 2
 Study Objectives and Outcome Measures

Objective	Outcome measure(s)
Primary objective	
To estimate the incidence of SAEs, AESIs, and medically-attended AEFIs after at least one IM dose of AZD1222 for 3 months after vaccination.	 Serious adverse events Adverse events of special interest Medically-attended AEFIs
Secondary objectives	
To estimate the incidence of SAEs, AESIs, and medically-attended AEFIs after at least one IM dose of AZD1222 for up to 18 months after vaccination.	Serious adverse eventsAdverse events of special interestMedically-attended AEFIs
To estimate the incidence of SAEs, AESIs, and medically-attended AEFIs after at least one IM dose of AZD1222 in participants by age group.	Serious adverse eventsAdverse events of special interestMedically-attended AEFIs
To estimate the incidence of SAEs, AESIs, and medically-attended AEFIs after at least one IM dose of AZD1222 in participants with select comorbidities.	Serious adverse eventsAdverse events of special interestMedically-attended AEFIs
To estimate the frequency of select pregnancy outcomes in women vaccinated with AZD1222 during pregnancy or within 45 days of the estimated conception date.	Events within the AESI medical concept "Pregnancy outcome – Maternal", including: • Spontaneous abortions • Stillbirths • Preterm births
To estimate the frequency of select outcomes at birth and up to 12 months of age in neonates/infants born to mothers vaccinated with AZD1222 during pregnancy or within 45 days of the estimated conception date.	Events within the AESI medical concept "Pregnancy outcome – Neonates", including: • Major congenital malformations • Small for gestational age
Exploratory objectives	
CCI	CCI
CCI	CCI
Serious adverse events, AESIs, and medically-attended AEFIs are cases. AE, adverse event; AEFI, adverse event following immunisation; AE, adverse event; SAE, serious adverse event.	AESI, adverse event of special interest; CCI

14 of 49

; SAE, serious adverse event.

8. RESEARCH METHODS

8.1 Definitions

In this protocol, the following terms are used as defined here:

Participants: Individuals who have enrolled in the study.

Vaccination site: Any location where a participant was administered an AZD1222 vaccination (Section 8.5.1). Vaccination sites are not study investigators.

Research coordinators: Research coordinators will assist with study recruitment and enrolment at vaccination sites. Research coordinators will generally be employees or contractors of the vaccination site. Where this is not feasible, study personnel acting on behalf of the Sponsor will contract with the vaccination site to permit a research coordinator not otherwise associated with the site to be present at the site.

Healthcare provider: Healthcare providers (HCPs) are medically qualified individuals who treat participants for a health issue during the study. Healthcare providers are not study investigators. For some participants, their vaccination site could also be their HCP.

Investigator(s): Investigators are responsible for the overall conduct of the study.

8.2 Study Design

This is a Phase IV real-world, observational, non-interventional, prospective cohort study of adults who receive the AZD1222 vaccine. Vaccine recipients ≥ 18 years old will be recruited for the study at vaccination sites in Germany, France, Spain, and Sweden. Awareness of the study may be raised through social media and traditional media (television, print, and radio).

In this study, vaccination sites will not act as traditional study investigators and will not be responsible for participant screening or safety follow-up. Rather, participants will self-enrol in the study using the study app, web portal, or call centre and will submit answers to study questionnaires using those methods. Event follow-up and assessment, where needed, will also be performed remotely by study personnel. The digital platform will also include an investigator dashboard where investigators and selected study personnel can view and track, in real time, all adverse events (AEs) submitted. Role-based permissions will ensure only authorised personnel can view identifying confidential data like participant names.

Participants will enrol in the study after vaccination with AZD1222. Enrolment is permitted within 28 days of the first dose of AZD1222 and can be completed at the vaccination site or remotely. If a vaccine recipient chooses to enrol in the study at the vaccination site, a study research coordinator may be present and can assist by:

• Providing information about the study.

- Explaining the study participation options: study app, web portal, or telephone communication with the call centre.
- Assisting the participant with the informed consent process.
- Checking if participants meet the eligibility criteria and providing vaccination details.
- Recording contact information for the participant, the emergency contact (in case of apparent loss to follow-up), and the participant's proxy, if needed.
- Providing the proxy with instructions on how to assist the participant with reporting.

For vaccine recipients who would prefer to enrol remotely at a later date, up to 28 days after the first vaccine dose, a study information brochure will be available that includes instructions to remotely enrol (including electronic informed consent completion, where permitted) and their vaccination details (if a vaccination card was not already provided).

Study personnel will confirm each participant's receipt of AZD1222 using their vaccination card, reported batch/lot number of the vaccine dose, and/or regional vaccination register details. The batch/lot number of the vaccine dose will be recorded whenever possible. The enrolment questionnaires will also ask participants for demographic information, medical history, pregnancy status, breastfeeding status (Figure 1).

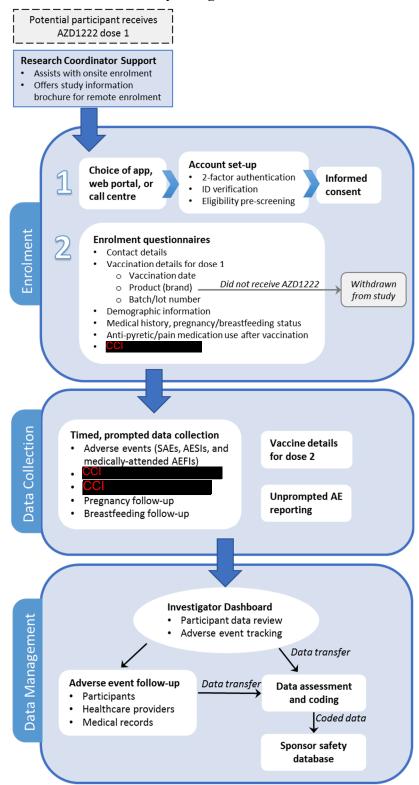
After enrolment, participants will receive study reminders and report outcomes using the app, web portal, or study call centre. Both digital and non-digital participants can select a proxy, ie, a caregiver, family member, or other trusted individual, who will have permission to complete study questionnaires on behalf of the participant. Participants will receive study notifications at predefined time intervals for up to 18 months after the first AZD1222 dose. Study notifications will include prompts for safety outcomes at 1, 4, 8, and 14 weeks and 6, 9, 12, and 18 months following the first vaccine dose. Participants can also submit unscheduled, unprompted AE information, with focus on the AE types specified for this study: SAEs, AESIs, and medically-attended AEs following immunisation (AEFIs), including COVID-19 cases that were medically-attended. Should other AE types, however, be reported, these will also be collected and managed accordingly and presented in the study report.

will be sent at 4.5 months and 15 months after the first vaccine dose. Participants may also receive messages to maintain contact and ensure study retention.

When a participant reports an AE, study personnel will see a flag in the investigator dashboard and will perform event follow-up and assessment. Study personnel will request medical records from the participant's HCP and assess if the event is serious and/or an adverse drug reaction. For events without an HCP contact, study personnel will assess AEs based on details provided from the participants.

Participants who are pregnant at the time of vaccination or are vaccinated within 45 days prior to the estimated date of conception will be asked to provide additional information to assess pregnancy and neonatal/infant outcomes. Pregnant women will be asked for pregnancy outcomes 12 months after their last menstrual period and for infant outcomes up to 12 months of age or at 24 months post-first dose for the last participant enrolled in the study, whichever is first. Participants who are breastfeeding will also be asked for additional information.

Figure 1 Overview of the Study Design



If a participant is unable to directly provide requested information, a proxy can do so on the participant's behalf. AE, adverse event; AESI, adverse event of special interest, AEFIs, adverse events following immunisation; SAE, serious adverse event.

8.3 Setting

8.3.1 Vaccination Sites

Vaccination sites will include various site types such as general/primary care practices, hospitals, vaccination centres, mobile vaccination units, and long-term care facilities. The types of sites may differ over time and between countries, reflecting differences in local practices and vaccination policies. To boost enrolment of older adults (≥ 65 years of age), the choice of vaccination sites for the study will target locations likely to administer vaccines to older adults and geographical areas with higher populations of older adults. The study will initially include vaccination sites in Germany, France, Spain, and Sweden, but the study may be expanded to additional EU countries.

8.3.2 Study Population

8.3.2.1 Eligibility Criteria

Participants are eligible to be included in the study only if all the following criteria apply:

- Aged 18 or older at the time of vaccination.
- Received AZD1222 as the first dose of COVID-19 vaccination in the prior 28 days.
- The participant has provided sufficient details to validate the vaccination (vaccination card, batch/lot number, and/or regional vaccination register details).
- Provided informed consent to participate in the study, either personally or through a legal representative.
- Able and willing to provide responses to study notifications using the mobile device app, web portal, or call centre or have a proxy (a caregiver, family member, or other trusted individual) who can do so on their behalf.
- Able and willing to grant, personally or through a legal representative, permission to contact the participant's healthcare providers and to access the participant's medical records at the time of vaccination and during the post-vaccination follow-up period.

8.3.2.2 Key Subpopulations

This real-world, non-interventional study will enrol all eligible participants but, in particular, will seek to enrol older adults, with a target of 50% of participants aged \geq 65 years. The study will also aim to have equal enrolment of male and female participants. Additional subpopulations of interest in this study include:

- Pregnant women, breastfeeding women
- Immunocompromised participants
- Participants with autoimmune or inflammatory disorders
- Frail participants with comorbidities (eg, chronic obstructive pulmonary disease, diabetes, chronic neurological disease, cardiovascular disorders)

8.3.3 Participant Withdrawal and Lost to Follow-up

A participant may withdraw from the study at any time at his/her own request or may be withdrawn at any time at the discretion of the investigator for safety, behavioural, compliance, or administrative reasons. If the participant withdraws consent for disclosure of future information, the Sponsor may retain and continue to use any data collected before such a withdrawal of consent. Participants who choose to withdraw will be asked for the reason they are leaving the study.

A participant will be considered lost to follow-up if he or she fails to respond to the study notifications and does not respond to subsequent follow-up attempts. At least 2 follow-up attempts will be made, at least one week apart.

For participants who are apparently lost to follow-up, study personnel will attempt to collect the vital status of the participant within legal and ethical boundaries for all participants enrolled. Participant's emergency contact, provided at enrolment, will be contacted and asked for the status of the participant, and, if appropriate, the reason the participant has not responded to study notifications. Public sources may be searched for vital status information. If vital status is determined as deceased, this will be documented, and the participant will not be considered lost to follow-up. Sponsor personnel will not be involved in any attempts to collect vital status information

8.4 Variables

8.4.1 Study Variables to be Collected

Table 3 summarises the data collection plan.

Table 3 Data Collection Plan for Key Variables and Information

	Enrolment (post-		Post-	vaccinati				ts via app vaccine d		phone call			Data capture format
Procedure or variable	vaccine dose 1) b	1 wk	4 wk	8 wk	14 wk	4.5 m 20 wk	6 m 26 wk	9 m 39 wk	12 m 52 wk	15 m 65 wk	18 m 78 wk	Data source(s)	
					Conse	nt and Co	ontact Det	ails					
Informed consent a	X											Participant	ICF form
Choice of digital or non-digital participation	X												
Personal contact information, including emergency contact	X											Participant	Profile questionnaire
Primary HCP and contact information	X												
Name and contact information for proxy, if needed	X											Participant	App or web portal interface
					V	accinatio	n Details						
Vaccine product (brand)	X		Star	ting at W	eek 1								Vaccination details questionnaire
Vaccination date	X		particip	ants can	complete							Vaccination site, RC, participant	
Vaccine batch/lot number	X			ost-vaccin ionnaire f									
Type of vaccination site	X			nd dose. S									
Photo of vaccination card ^c	X			es are exp								Participant	Vaccine card photo
Any antipyretic/pain-reliever within 5 days of vaccination		X	We	een Week ek 14 bas nended so	ed on							Participant	Antipyretic/ pain-reliever questionnaire
				J	Participan	t Backgr	ound Info	rmation					
Age	X												
Sex/gender	X												
Height/weight	X												
Race/ethnicity d	X											Participant	Background questionnaire
Country of birth/residence	X												questionnaire
Employment status	X												
Smoking status/history	X												

Table 3 Data Collection Plan for Key Variables and Information

	Enrolment (post- vaccine dose 1) b	Post-vaccination follow-up with participants via app, email, or phone call (months, weeks after first vaccine dose)											
Procedure or variable		1 wk	4 wk	8 wk	14 wk	4.5 m 20 wk	6 m 26 wk	9 m 39 wk	12 m 52 wk	15 m 65 wk	18 m 78 wk	Data source(s)	Data capture format
	•					Medical l	History						
Prior infection with SARS- CoV2 or prior COVID-19 disease, including symptoms	X											Participant, medical records	Medical history questionnaire
Recent non-AZD1222 vaccination	X	X	X	X	X		X	X	X		X		
Select comorbidities and medications ^e	X												
						Safety Ou	itcomes						
SAEs, AESIs, and medically attended AEFIs f • Symptoms • Diagnosis • Onset date/duration • Intensity • Resolution • Treatment • Seriousness g • Causality g		X	X	X	X		X	X	X		X	Participant, HCP, medical records	Health status questionnaire, AESI form (when applicable)
CCI		X	X	X	X		X	X	X		X	Participant, medical records	CCI
Death												Emergency contact, proxy, HCP, medical records	Safety database

Table 3 Data Collection Plan for Key Variables and Information

	Enrolment (post-		Post-vaccination follow-up with participants via app, email, or phone call (months, weeks after first vaccine dose)										
Procedure or variable	vaccine dose 1) b	1 wk	4 wk	8 wk	14 wk	4.5 m 20 wk	6 m 26 wk	9 m 39 wk	12 m 52 wk	15 m 65 wk	18 m 78 wk	Data source(s)	Data capture format
Pregnancy Status and Outcomes (Pregnant and Breastfeeding Women Only)													
Pregnancy status, including maternal medical and obstetric history	X	X	X	X	X		X	X	X		X	Participant, medical records	Pregnancy status questionnaire
Pregnancy/infant outcomes, pregnant participants			Participants who report pregnancy at the time of vaccination will be followed-up at 12 months after their estimated last menstrual period and, for those reporting live-birth, at infant age up to 12 months to assess pregnancy/infant outcomes. ^j							Participant, medical records	Pregnancy follow- up questionnaire		
Breastfeeding status, including infant outcomes	X	X	X	X	X		X	X	X			Participant, medical records	Breastfeeding status questionnaire
Parent/caregiver informed consent i	X											Participant	Parent/caregiver ICF
Patient-reported Quality of Life Outcomes													
CCI	X k					X k				X k		Participant	CCI
CCI						X k				X k		Participant	CCI

^a Informed consent will include consent to participate in the study as well as to contact HCPs and for the release of medical records relevant to the study.

b Participants can enrol up to 28 days after their first vaccine dose.

^c For digital participants only. For non-digital participants, vaccination details will be validated by the call centre.

d Will be collected in countries where permitted.

Selected medical conditions: neuroimmune condition, other neurological condition, bleeding disorder, asthma, chronic obstructive pulmonary disease, diabetes, cerebrovascular conditions, heart disease, other cardiovascular disease, chronic kidney disease cancer, autoimmune disease, solid organ transplant recipient, other condition affecting immune system, liver disease, history of allergic conditions, depression/anxiety, viral/bacterial infection leading to hospital admission, and other chronic condition or conditions for which participant received treatment or medication in last month. If a participant indicates having any of these conditions, the participant will be asked if they are currently taking any medication or being treated for it. Specific medication will not be asked unless the participant indicates they are taking an immunosuppressant.

Adverse event reports can be scheduled (timed follow-ups) or unscheduled. At the scheduled timepoints, participants will be asked if they've had any new or worsening health issue resulting in consultation with a medical doctor, an emergency room visit or hospitalisation, or a significant or long-term disability or incapacitation. When a participant responds "yes", the participant will be asked for more details. For reported COVID-19 cases, this will include patient-reported symptoms.

g Healthcare providers will provide input and study personnel will assess the seriousness and causality of AEs.

- Participants vaccinated with AZD1222 during pregnancy or up to 45 days before the estimated date of conception will be asked to follow outcomes in their child for up to 12 months after birth. Breastfeeding participants will also be asked to follow-up on their child's health. Before any request for a child's medical records, the participant will be asked for additional informed consent. The child's other parent may also be asked for consent, depending on local requirements.
- Outcomes in infants will be requested up to 12 months of age. However, follow-up of pregnancy and infant outcomes will not be continued past 24 months post-first dose for the last participant enrolled in the study.

k CC

As a data source, participant means either the participant directly or the participant's designated proxy.

For the safety outcome follow-ups at Weeks 1, 4, 8, 14, and Month 6, 9, 12, and 18, depending on the interval between scheduled contacts, participants will receive reminders for 1 to 12 weeks after the initial notification to complete the questionnaire.

AE, adverse event; AEFI, adverse event following immunisation; AESI, adverse event of special interest; CSP, clinical study protocol; HCP, healthcare provider, CCI; ICF, informed consent form; m, month; NA, not applicable; CCI

; RC research coordinator; SAE serious adverse event; wk, week.

8.4.2 Variables for Identifying Subpopulations

8.4.2.1 Adults Aged ≥ 65 Years and Other Age Groups

Participants will record their age at enrolment and will be categorised accordingly.

8.4.2.2 Pregnant Women

At enrolment, females aged < 50 years will be asked the date of their last menstrual period and if they are currently pregnant. Those who have not reported pregnancy, will be prompted for this information at each safety follow-up. Women who report pregnancy will be asked for their expected due date. Their estimated date of conception will be calculated, and those vaccinated (either first or second dose) between 45 days prior to the estimated date of conception and, any other point during pregnancy, will be included in the pregnant women subpopulation.

8.4.2.3 Breastfeeding Women

At enrolment and at all safety follow-ups (except at 18 months), females aged < 50 years will be asked if they are currently breastfeeding. Participants who report they are breastfeeding when they receive either vaccine dose (first or second) will be included in the subpopulation.

8.4.2.4 Immunocompromised Participants and Participants with Autoimmune or Inflammatory Disorders

At enrolment, participants will be asked if they have ever been diagnosed with certain medical conditions and if they are currently taking an immunosuppressant medication. Study personnel will confirm medical conditions and immunosuppressant medications with medical records. Confirmed medical conditions and medications will be used to categorise participants as immunocompromised and/or as having an autoimmune or inflammatory disorder.

The subpopulation of immunocompromised participants will include participants taking an immunosuppressant (eg, tracrolimus, cyclosporine, corticosteroids, and methotrexate), participants with a diagnosis of an autoimmune disease, neuroimmune condition, or another condition affecting the immune system, and participants currently taking medication for cancer or being treated for cancer.

The subpopulation of participants with an autoimmune or inflammatory disorder will include participants diagnosed with an autoimmune disease or neuroimmune condition.

8.4.2.5 Frail Participants with Comorbidities

The EMA's reflection paper on physical frailty has defined the concept of frailty "as a state of increased vulnerability resulting from aging and often disease associated decline ... leading to increased risk of adverse health outcomes..." (EMA 2015).

For this study, physical frailty will be identified at baseline using participant answers to the enrolment questionnaire as well as to the CCI

CC

CCI

. Comorbidities will be

reported by participants at enrolment and then confirmed by study personnel through medical record reviews.

Only participants with physical frailty and comorbidities at baseline will be included in this subpopulation.

8.4.3 Outcome Measures

8.4.3.1 Adverse Events

The collection and analysis of AEs will focus on 3 categories of events:

- Serious adverse events
- Adverse events of special interest
- Medically-attended AEFIs

The following variables will be recorded for all collected AEs:

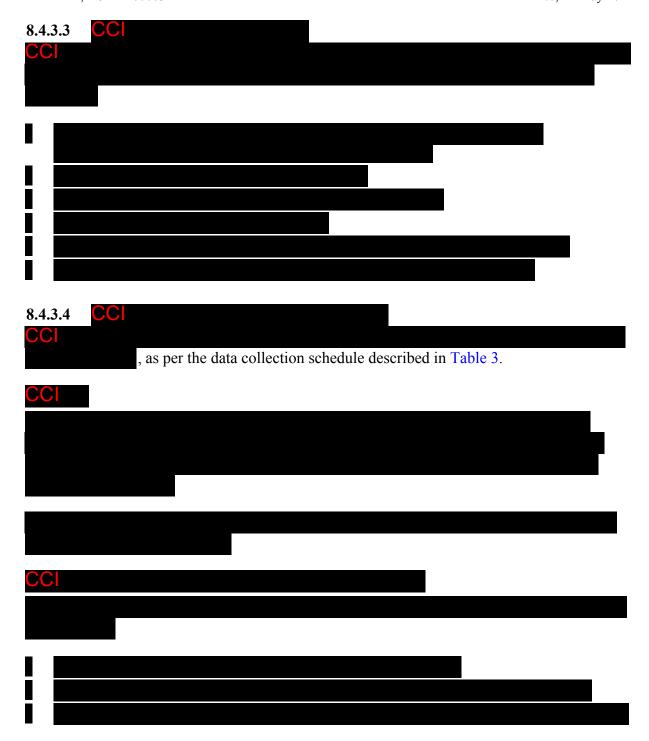
- Onset date of the health issue or start of the worsening of the issue
- Intensity (mild, moderate, severe)
- Duration of the issue (estimated number of days)
- Outcome (resolved, unresolved, fatal, unknown)
- CCI
- Treatment received for the issue
- Seriousness (SAE, non-SAE)
- Causality
- Adverse event of special interest details (if relevant)

If the participant indicates an AE may be related to COVID-19 or if they received a diagnosis for COVID-19, they will be asked about any COVID-19 testing and results.

For additional details on AE definitions, management, and reporting, refer to Section 10.

8.4.3.2 Pregnancy Outcomes

Data will be collected for pregnancy outcomes and infant outcomes. For pregnancy outcomes, events within the AESI medical concept "Pregnancy outcome – Maternal" will be collected, including spontaneous abortions, still births, and preterm births. For infant outcomes, events within the AESI medical concept "Pregnancy outcome – Neonates" will be collected, including major congenital malformations and small for gestational age.



8.4.3.5 Antipyretic/Pain Reliever Use

After both vaccine doses, participants will be asked if they had used antipyretics and/or pain-relievers within 5 days of vaccination. If a participant indicates use of antipyretics/pain relievers, the participant will be asked for additional information:

- If the participant started taking the medication before or after vaccination
- If after vaccination, how many days after
- If the participant is continuing to take the medication to prevent/treat symptoms that could be related to vaccination
- How many days the participant took the medication

Participants will not be specifically asked for symptoms or adverse events related to antipyretic/pain reliever use, but non-prompted AEs can be reported at any time by study participants as described in Section 10.2.

8.5 Data Sources

8.5.1 Vaccination Sites

Vaccination sites will provide participants with a vaccination card/record that includes the participant's name, the vaccine dose date, and the batch/lot number.

8.5.2 Participants: Study App, Web Portal, and Call Centre

Participants will record their baseline characteristics and will report post-vaccination outcomes using the study app, web portal, or call centre. Generally, participant inputs will be responses to the timed study questionnaires but can also include documentation like a photo of their vaccination card. A proxy may assist with any enrolment, reporting, or follow-up actions on behalf of the participant (Section 8.5.3). Participants can switch data reporting methods during the study but will be encouraged to use a consistent method for answering the health-related quality of life questionnaires.

The study app can be downloaded by participants to their mobile device. At vaccination sites with a study research coordinator present, the coordinator may assist participants with downloading and using the app. In mobile units where a study research coordinator might not be present, or when a participant decides to enrol later remotely, vaccine study cards will be available that will provide similar instructions.

The web portal will be accessible from any internet-connected computer and will allow users to securely login to a website and perform study-related activities.

The call centre will be toll-free. In some locations, it will be available 24 hours/day and 7 days/week. In locations where the call centre is not 24/7, it will be available weekdays during business hours and have an out of hours voicemail with call-back support. For

participants that choose to communicate by telephone call, the call centre team will enter their responses into the digital platform. Accordingly, all patient-reported data will be integrated in the digital platform, regardless of the reporting method.

8.5.3 Emergency Contacts and Proxies

At enrolment, all participants will be asked to provide information for an emergency contact. In the case of non-response from a participant, the emergency contact would be contacted to confirm if the participant is unavailable due to incapacity or death.

If a participant is unable to directly provide any requested information, a proxy can do so on the participant's behalf. Participant proxies may include a caregiver, family member, or other trusted individual. The proxy will enter the participant's data into the app or web portal on the participant's behalf.

A proxy may act on the participant's behalf throughout the study or may step in if needed due to the participant's illness or incapacity. If a proxy is needed at the onset of the study, the participant can identify the proxy during enrolment. Instructions for the proxy on how to report outcomes on behalf of the participant will be available from a research coordinator or study information brochure.

Participants will be asked to only nominate a single proxy and will be asked for the appropriate permission for the proxy to handle their medical data for the limited purpose of assisting with data collection for this study, in accordance with local rules.

8.5.4 Medical Records

Medical records (paper or electronic) will be used to confirm comorbidities and medications at baseline and to follow up AEs reported during the study. Medical records will also be used to confirm pregnancy, birth, and infant outcomes. For all SAEs, AESIs, and medically-attended AEFIs, medical records will be requested from the participant's HCP.

8.5.5 External Data

External data from published studies or other publicly available sources such as registry databases will be identified. These additional data sources may be utilised to provide supporting data and context, and, if feasible, background event rates for risk assessment analyses (ACCESS 2020).

8.6 Study Size

This study plans to enrol 15,000 participants in at least 4 countries in the EU (Germany, France, Spain, and Sweden). The Sponsor will aim for at least 50% of participants to be 65 years of age or older and approximately equal proportions of male and female participants.

As the COVID-19 pandemic is a dynamic situation, the enrolment target may be amended if recruitment forecasts change.

8.7 Data Management

Data management will be performed by a contract research organisation (CRO) according to the Data Management Plan.

8.7.1 Digital Platform Data

All data entered into the study app or web portal will be integrated in the digital platform and will be tracked by reporting method (app or web portal), who reported it (participant, proxy, or emergency contact), and who entered it (participant, proxy, or call centre). The digital platform will also include an investigator dashboard where investigators and selected study personnel can view and track, in real time, all AEs submitted. Role-based permissions will ensure only authorised personnel can view identifying confidential data like participant names.

The study app and web portal will be validated and compliant with good practice guidelines and regulations and the EU General Data Protection Regulation (GDPR). The app will support iOS and Android operating systems. The app and web portal will be approved by local IECs and translated into local languages.

8.7.2 Study Call Centre

The call centre will be available to assist participants throughout the study, including during the informed consent and enrolment process. The call centre will operate in local languages. The call centre team will enter data into the digital platform on the participant's behalf. For consistency, the call centre will be provided with instructions on how to collect and enter data in a standardised way.

8.7.3 Record Retention

The study archive, including all source data, will be maintained for at least 5 years after the final report or first publication of study results, whichever comes later, in accordance with the International Society for Pharmacoepidemiology Guidelines on Good Pharmacoepidemiology Practices (GPP). Study records and data must be retained for longer than 5 years if required by applicable local regulations.

The Sponsor will comply with all the requirements of GPP and regional legislation related to archiving of study documentation. Records containing participant sensitive data will not be archived by the Sponsor, but must be kept with a CRO, investigators, and/or patient and according to local regulations pertaining to personal data protection.

Participant medical records must be kept for the maximum period permitted. Investigators and CRO personnel involved with handling participant medical records must agree to archive the documentation pertaining to the study after completion or discontinuation of the study, if not otherwise notified. They should not destroy any documents without prior permission from the Sponsor.

8.8 Data Analysis

This study is descriptive in nature. Proposed data analysis methods are summarised here. Detailed methodologies will be documented in a separate statistical analysis plan.

Sample size. The planned sample size of this study is approximately 15,000 participants. For this study, the sample size reflects the Sponsor's best estimation of the enrolment potential in Germany, France, Spain, and Sweden, as well as the Sponsor's broader target to enrol between 30,000 to 40,000 participants across multiple studies. As described in the Vaccine COVID-19 Monitoring Readiness (ACCESS) protocol, a sample size of 30,000 with a mean follow-up of 12 months will be sufficient to rule out rare AEFIs with a frequency of more than 1:10,000 per person-year at an alpha of 5% (Meurs and Kant 2020). A sample size of 15,000 with 12 months follow-up would permit the frequency per year of common AEFIs to be estimated with a maximal confidence interval of \pm 0.8% using the binomial distribution. An estimate of 12 months follow-up is used, rather than the full 18 months, to account for possible loss-to-follow-up.

Demographic and baseline characteristics. Distribution of participant characteristics at baseline will be described through point estimates (mean, median, rates, or proportions) and the corresponding variability (interquartile range, 95% confidence intervals). For a summary of participant demographics and characteristics to be collected at enrolment, refer to Table 3 in Section 8.4.1. Demographics and baseline characteristics collected in the participant enrolment questionnaire will also be used to categorise participants into subpopulations of interest (see Section 8.4.2) and to perform the subgroup analyses (described below).

Disposition. Participant dispositions will be tabulated, including study completion, study withdrawal, participants lost-to-follow-up, and deaths.

Primary and secondary analyses. The primary analysis will only include participants who enrolled within 7 days of vaccination with the first dose of AZD1222. All AEs collected, regardless of seriousness, will be tabulated. The cumulative incidence of SAEs, AESIs, and medically-attended AEFIs will be computed as the proportion of participants who reported an event among all AZD1222 vaccinated participants who completed each study-defined follow-up interval as well as among all AZD1222-vaccinated participants regardless of completion status, in combination with corresponding patient-years.

Where feasible, incidence rates will be calculated (in person-years), both by dividing by number of person-years, as well as by taking into account death as a competing event and withdrawal from the study/loss-to-follow-up as a censoring event (using cumulative incidence). Kaplan-Meier curves will be used for this analysis where appropriate.

Summaries of SAEs, AESIs, and medically-attended AEFIs by intensity, seriousness, and relatedness will also be presented.

In the pregnancy sub-cohort, the prevalence of pregnancies that resulted in live births, spontaneous abortions, and stillbirths will be summarised along with any other pregnancy outcomes reported within the AESI medical concept of Pregnancy Outcomes - Maternal. Infant outcome measures will also by summarised by the prevalence of events in the AESI medical concept of Pregnancy Outcomes – Neonates, including small for gestational age and major congenital malformations.

Additional supportive analysis. To support safety signal evaluation, a risk assessment will be conducted for AESIs using background event rates established through the ACCESS project or another source (Meurs and Kant 2020, ACCESS 2020). To further enhance background rate identification, additional literature review will be conducted if ACCESS data is insufficient or unavailable. Appropriate risk windows will be estimated for these analyses and counts of AESIs that occurred within the prespecified risk window will be compared against expected values using sequential testing. Where appropriate, analyses will be stratified by sex and age. To assess whether larger risks can be found based on bias, the background rates based on the external sources will be evaluated as they are and with additional scenarios.

Subgroup analyses. Incidence rates and potential differences in the risk and pattern of participants experiencing AEs within different subgroups will be explored, including categories that are considered missing information at the start of the study. The subgroup analyses will include:

- Age at vaccination (18 to 34, 35 to 49, 50 to 64, 65 to 79, and \geq 80 years)
- Sex (male, female)
- Race/ethnicity
- Country (Germany, France, Spain, Sweden)
- Previous COVID-19 infection
- Use of antipyretics/pain-reliever medication
- Pregnant/breastfeeding women
- Participants with immunodeficiency
- Participants with autoimmune or inflammatory disorders
- Frail participants with comorbidities (chronic obstructive pulmonary disease, diabetes, chronic neurological disease, or cardiovascular disorders)

- Participants who receive other vaccines in addition to AZD1222 (within 1 month)
- Number of AZD1222 doses received (1 dose, 2 doses)

Handling of missing data. No restrictions on the percentage of missingness will be made, but the baseline characteristics of the participants lost-to-follow-up will be tabulated. The differences between the baseline characteristics for the total group and the group lost-to-follow-up will be related to the subgroup analyses to assess for a possible impact on AE risk. Adjustment for missingness will be further specified in the statistical analysis plan but may include multiple imputation, joint modelling, and inverse probability weighting.

To deal with missingness due to death, death will be interpreted as a competing risk in the above analyses.

Mitigation of potential bias and confounding. Strategies include:

- To account for possible sampling bias due to the recruitment of vulnerable populations first (residual confounding), in the risk assessment analyses, in addition to the expected background event rate, the rates will be multiplied by 1.2, 1.5, and 2.0 times, for example.
- Subgroup analyses within risk assessment analyses will also be performed, if feasible.
 When characteristics are found that both are related to differences in AE risk and to differences between study participants and the overall vaccinated population, weighting will be added.
- Additional sensitivity analyses will include:
 - As participants can enrol in the study within 28 days of their initial vaccination, it will also be evaluated whether the AE risk for participants enrolling in the days and weeks after vaccination differs from the risk for participants enrolling immediately after vaccination. A sensitivity analysis will be performed that excludes subjects enrolled more than 2 days after the date of vaccination.
 - Participants who report pregnancy at the time of vaccination or an estimated date of conception within 45 days of vaccination will be included in the analyses for pregnant women. Sensitivity analyses will consider time windows less than 45 days.
 - Sensitivity analyses will evaluate the relationship between sex and loss-to-follow-up and the relationship between age and loss-to-follow-up.



8.9 Quality Control

Quality Control Guidelines and Procedures

This study will follow all applicable international and local quality regulations, including GPP. AstraZeneca standard operating procedures will also be used to ensure the quality of the data and study. These procedures include internal quality audits, rules for secure and confidential data storage, methods to maintain and archive project documents, quality control procedures for study monitoring, standards for writing a statistical analysis plan, and requirements for senior scientific review.

Data Quality Assurance

- Vaccination sites and study personnel must maintain accurate documentation and must permit study-related monitoring, audits, IEC review, and regulatory agency inspections, and provide direct access to study documents.
- Monitoring details describing strategy (eg, risk-based initiatives in operations and quality such as Risk Management and Mitigation Strategies and Analytical Risk-Based Monitoring), methods, responsibilities and requirements, including handling of noncompliance issues and monitoring techniques, are provided in the Site Monitoring Plan.
- The Sponsor assumes accountability for actions delegated to other individuals (eg, CROs).
- In-person monitoring of vaccination sites will only be performed if a specific cause requires investigation.
- Records and documents, including signed informed consent forms, pertaining to the
 conduct of this study must be retained by the Sponsor or designee for 5 years after study
 completion unless local regulations or institutional policies require a longer retention
 period. No records may be destroyed during the retention period without the written
 approval of the Sponsor. No records may be transferred to another location or party
 without written notification to the Sponsor.

Audits and Inspections

The Sponsor or designee may conduct a quality assurance assessment and/or audit of study records, and the regulatory agencies may conduct a regulatory inspection at any time during or after completion of the study.

8.10 Limitations of the Research Methods

Limitations of the research methods and how they are addressed by the study design are summarised in Table 4.

Table 4 Study Limitations and Mitigations

Potential limitation	Reason for potential limitation	Rationale or mitigation					
Study population lim	itations						
Uncertain enrolment	The status of the COVID-19 pandemic, availability of other vaccines, and the social and political environment at each location will impact recruitment and follow-up of vaccinated volunteers. The uncertainty of the situation and the highly dynamic environment can hinder enrolment forecasts.	Will evaluate enrolment on an ongoing basis and expand study to additional countries if needed.					
Sampling bias	Some subgroups (ie, vulnerable persons and the elderly) may be over-represented in the study population, as compared to the general population who will receive the vaccine in the future.	As this study aims for at least 50% of participants \geq 65 years, potential bias towards older persons is a benefit. However, the ability to enrol sufficient participants \geq 75 years or \geq 80 years will depend on how many elderly individuals are still waiting to receive a vaccine or have chosen not to vaccinate yet due to vaccine hesitancy or local guidance when the study begins.					
Selection bias	Self-enrolment of participants in the study after vaccination.	To reduce selection bias, the study includes digital and non-digital participation options, an option to use a proxy, and a range of vaccination site types where recruitment will take place.					
Overall study design	limitations						
Unknown confounders	Sources of unmeasured and residual confounding could include socioeconomic factors, lifestyle factors (including exercise, diet, etc), and healthcare-seeking behaviour.	In this non-interventional surveillance study, the benefit of additional personal information needed to be weighed against the burden on participants' time and privacy.					
Lack of internal comparator	While an internal comparison (ie, a cohort unexposed to any COVID-19 vaccine) is preferable, it was deemed not feasible.	An internal comparator was not feasible because: Unethical to include volunteers that could be discouraged from vaccination Selection bias of volunteers who opt out of vaccination could result in different risk of outcomes An additional cohort would prolong study delivery					
Recall bias	This study will permit enrolment remotely up to 28 days after the first vaccine dose and will only periodically remind participants to report outcomes, introducing the possibility of recall bias.	The following study elements address recall bias: The primary analysis will be limited to participants who enrolled within 7 days of their first vaccine dose. Participants must complete the scheduled questionnaires within certain time windows.					
Misclassification of events	Participants could self-report events inaccurately.	Study personnel will follow up to confirm as many event details as possible using medical records, as described in Section 10.2.					

 Table 4
 Study Limitations and Mitigations

Potential limitation	Reason for potential limitation	Rationale or mitigation
Failure to report events due to incapacity	Primary method of reporting outcomes is self-reporting	All participants will be asked to provide an emergency contact when they enrol. As described in Section 8.3.3, if a participant seems lost-to-follow-up, study personnel will reach out to the emergency contact and/or perform a search for vital status information.
Data analysis limitat	ions	
Generalisability	Point estimates and confidence intervals resulting from the analyses should only be interpreted as indications and not as reflective of a 'true' underlying estimand because of the limitations of conducting a study during an ongoing pandemic. This may impact the interpretation of the results as well as the ability to generalise the results to post-pandemic circumstances.	Will be considered for final analysis.
Missing data	Loss of participants in follow-up and/or missing data are limitations inherent in all primary data collection observational studies. In this non-interventional, observational study, participants may not respond to all prompts and may not complete the full 18-month follow-up period.	See Section 8.8 for planned handling of missing values in the analyses.
Risk assessment analyses	It is unclear how efficient risk assessment analyses will be during the COVID-19 pandemic given the impact of COVID-19 on general healthcare seeking behaviour. This may change over time as COVID-19 activity decreases. Paradoxically, increased outcomes may then be observed as vaccination coverage increases and COVID-19 decreases. Trends may be challenging to interpret in this changing healthcare-use environment, confounded by vaccine and other treatment/prevention measures.	Will be considered for final analysis.
Detection of rare events	Some rare events may not be detected in a sample size of 15,000.	Data from this study may be used in a pooled analysis or meta- analysis combining data from similar studies in different regions, for an overall enrolment of at least 30,000 across the studies.

AESI, adverse event of special interest.

8.11 Other Aspects

Study Governance and Committees

A Scientific Committee will be set up to support and oversee the study and will be governed by a charter detailing responsibilities and processes.

Other teams and committees will be established as needed.

9. PROTECTION OF HUMAN SUBJECTS

9.1 Ethical Conduct

Independent Ethics Committee approval will be obtained in accordance with applicable national and local regulations.

This study will be conducted in accordance with International Society for Pharmacoepidemiology Guidelines for Good Pharmacoepidemiology Practices (ISPE 2015) and applicable regulatory requirements including the European Medicines Agency Guideline on Good Pharmacovigilance Practices: Module VIII – Post-Authorisation Safety Studies (EMA 2017).

The Sponsor will also adhere to the general principles of transparency and independence in the European Network of Centres for Pharmacoepidemiology and Pharmacovigilance (ENCePP) Code of Conduct (ENCePP 2018). The ENCePP Checklist for Study Protocols is located in Appendix B.

9.2 Informed Consent

A signed and dated electronic or written informed consent will be obtained before any participant data is collected for the study. Electronic consent will be an option where permitted.

For vaccine recipients who choose to enrol in-person at a study site, if a study coordinator is present, the coordinator will ensure they are given full and adequate information about the nature and purpose of the study. They will be given the opportunity to ask questions and allowed time to consider the information provided. For vaccine recipients who choose to enrol remotely, similar information will be available electronically and the call centre will be available to answer questions.

All participants will need to consent to requests for their medical records (paper and electronic) to further evaluate safety events.

Participants vaccinated with AZD1222 during pregnancy or up to 45 days before estimated date of conception will be asked to follow outcomes in their child for up to 12 months after birth. Breastfeeding participants will also be asked to follow-up on the health of their child. If

any follow-up requires access to a child's medical records, consent will be requested from the participant and may be requested from the child's other parent/caregiver, depending on local requirements.

9.3 Participant Data Protection

Data privacy and confidentiality practices will abide by local rules and will be subject to review by local IECs prior to the start of the study.

Participants will be assigned a unique identifier code by the digital platform. Any participant records or datasets that are transferred to the Sponsor will contain the identifier only. No information that could make the participant identifiable will be transferred to the Sponsor.

Participants will be informed that their personal study-related data will be used by the Sponsor in accordance with local data protection law. The level of disclosure and use of their data will be explained to participants in the informed consent. The participants will be informed that their medical records may be examined by authorised personnel appointed by the Sponsor, by appropriate IEC members, and by inspectors from regulatory authorities.

As part of the study onboarding steps, participants will need to choose if they are planning to use a proxy to act on their behalf in the study and provide their contact information. Participant proxies who use the study digital solutions will create a separate account that will be linked to the participant's account.

9.4 Registration of Study on Public Websites

The study will be registered in the ENCePP EU Register of Post-Authorisation Studies after protocol approval and before the study implementation commences.

10. MANAGEMENT AND REPORTING OF ADVERSE EVENTS/ ADVERSE REACTIONS

10.1 Definitions

10.1.1 Adverse Events

An AE is the development of any unfavourable and unintended sign, symptom, or disease temporally associated with the use of a medicinal product, whether or not related to the medicinal product. The term AE is used to include both serious and non-serious AEs and can include a deterioration of a pre-existing medical occurrence.

10.1.2 Serious Adverse Events

An SAE is an AE that fulfils one or more of the following criteria: results in death, is immediately life-threatening, requires in-patient hospitalisation or prolongation of existing hospitalisation, results in persistent or significant disability or incapacity, is a congenital

abnormality or birth defect, or is an important medical event that may jeopardise the participant or may require medical treatment to prevent one of the outcomes listed above.

Life-threatening: 'Life-threatening' means that the participant was at immediate risk of death from the AE as it occurred, or it is suspected that use or continued use of the product would result in the participant's death. 'Life-threatening' does not mean that had an AE occurred in a more severe form it might have caused death (eg, hepatitis that resolved without hepatic failure).

Hospitalisation: Outpatient treatment in an emergency room is not in itself an SAE, although the reasons for it may be (eg, bronchospasm, laryngeal oedema). Hospital admissions and/or surgical operations planned before or during a study are not considered AEs if the illness or disease existed before the participant was enrolled in the study, provided that it did not deteriorate in an unexpected way during the study.

Important Medical Event or Medical Treatment: Medical and scientific judgement should be exercised in deciding whether a case is serious in situations where important medical events may not be immediately life-threatening or result in death, hospitalisation, disability or incapacity but may jeopardise the participant or may require medical treatment to prevent one or more outcomes listed in the definition of serious. These should usually be considered as serious.

10.1.3 Medically-attended Adverse Events Following Immunisation

A medically-attended AEFI is a new or worsening health problem or symptom following immunisation, resulting in a consultation with a medical doctor, an emergency room visit, or hospitalisation. A consultation with a medical doctor can be remote (by phone or video) or can be an in-person visit.

10.1.4 Adverse Events of Special Interest

Adverse events of special interest are events of scientific and medical interest specific to the further understanding of the safety profile of a product and require close monitoring. An AESI can be serious or non-serious. A list of AESIs for AZD1222 was developed for the AZD1222 Risk Management Plan and will be followed for this study.

Table 5 lists the AESIs for AZD1222. The AESI list will be reviewed on an ongoing basis and the EU Risk Management Plan and the list for this study will be updated accordingly.

Table 5 Adverse Events of Special Interest for AZD1222

Body System/Classification	AESI or AESI Medical Concept				
	Vaccine-associated enhanced disease (VAED), including vaccine associated enhanced respiratory disease (VAERD) ^a				
Other system	Multisystem inflammatory syndrome in children/adults (MIS-C/A)				
	Sudden death				
T 1 ' 1	Autoimmune thyroiditis				
Immunological	Anaphylaxis				
Respiratory	Acute respiratory distress syndrome (ARDS)				
	Guillain-Barré syndrome				
	Peripheral neuropathy and polyneuropathy				
	Multiple sclerosis, transverse myelitis, and other demyelinating disorders				
	Optic neuritis / neuromyelitis optica spectrum disorder				
Neurologic	Non-infectious encephalitis (inc. acute disseminated encephalomyelitis) / non-infectious encephalopathy				
	Myasthenia gravis				
	Bell's palsy				
	Seizure disorders (inc. febrile)				
	Narcolepsy				
	Myocarditis/pericarditis				
Cardiovascular system	Myocardial infarction				
	Postural orthostatic tachycardia syndrome				
	Thrombocytopaenia				
Circulatory system/Haematological	Embolic and thrombotic events				
system machine logical	Capillary leak syndrome (CLS)				
Renal	Acute kidney injury				
Gastrointestinal	Acute liver injury				
	Acute pancreatitis				
Musculoskeletal system	Acute aseptic arthritis				
	Fibromyalgia				
	Rhabdomyolysis				
General	Chronic Fatigue Syndrome/myalgic encephalomyelitis/postviral fatigue syndrome				
Dragon on ass/E4-1/N1	Pregnancy outcome – Maternal ^b				
Pregnancy/Foetal/Neonatal	Pregnancy outcome – Neonates ^b				
Skin	Erythema multiforme				
	<u> </u>				

- The case definition for VAED, including VAERD will follow the Brighton Collaboration Case Definition (Munoz et al 2021).
- Additional information about the case definitions and preferred terms for these AESI medical concepts is provided in the EU Risk Management Plan and/or will be included in the Statistical Analysis Plan or other study documentation. AESI, adverse event of special interest, EU, European Union.

10.1.5 Adverse Drug Reaction

An adverse drug reaction (ADR) is a response to a medicinal product which is noxious and unintended. Response in this context means that a causal relationship between a medicinal product and an AE is at least a reasonable possibility. An ADR, in contrast to an adverse event, is characterised by the fact that a causal relationship between a medicinal product and an occurrence is suspected.

In this study, causality information will be requested from the HCP for all SAEs, AESIs, and medically-attended AEFIs. Study personnel will make a causality assessment for those events, considering the input from the HCP. For events without an HCP contact, study personnel will assess the events based on details provided from the participants.

10.1.6 COVID-19 Diagnosis and Lack of Efficacy

A COVID-19 diagnosis is defined as virologically-confirmed SARS-CoV-2 (eg, reverse transcription polymerase chain reaction [RT-PCR]) and:

- At least 1 symptom of COVID-19 disease (eg, objective fever [defined as ≥ 37.8 °C], cough, shortness of breath, anosmia, or ageusia) or
- COVID-19 diagnosis stated/provided by the physician.

In this study, lack of efficacy is defined as the occurrence of COVID-19 caused by SARS-CoV-2 in a person who is appropriately and fully vaccinated following an incubation period of ≥ 15 days following the second dose of the vaccine.

10.2 Collection and Assessment Process for Adverse Events

Adverse events will be collected from the time of informed consent through 18 months post-first dose for participants. However, among pregnant women, follow-up will continue for 12 months after the birth of the child or until 24 months post-first dose of the last participant enrolled, whichever happens first.

Participants will receive timed notifications via push notification, email, or phone call asking for any new or worsening health issues that have resulted in consultation with a medical doctor, an emergency room visit or hospitalisation, or a significant or long-term disability or incapacitation.

Participants can also submit unprompted AE information at any time though the app, web portal, or call centre. All AEs collected during this study will be considered solicited AEs, regardless if they were prompted or unprompted.

If a participant indicates a new or worsened health problem, the participant will be asked additional questions about the issue, intensity, treatment, and outcome. Adverse events collected for this study, both prompted and unprompted, will focus on the events of interest for the study assessments and analyses: SAEs, AESIs, and medically-attended AEFIs, including COVID-19 infections. Should other AE types, however, be reported, these will also be collected and managed accordingly and presented in the study report.

All collected events will be immediately available to study personnel in the investigator dashboard, where new events will be flagged. Study personnel will then validate the cases, request medical records, and assess seriousness and causality with input from HCPs and the medical records (Figure 2).

Study personnel will confirm all collected AEs with the participant, the proxy, the emergency contact, and/or through the review of medical records. If the participant received care from an HCP aside from their primary care physician, study personnel will follow up to obtain contact information for that HCP to permit a medical record request. Follow-up for AESIs with the HCP will include the completion of a targeted safety questionnaire. Study personnel with medical expertise will be available to advise on whether any reported symptoms or events may be a suspected AESI and/or require adjudication (Section 10.6).

Certain situations require collection and reporting to the Sponsor, regardless of whether the situation was related to an AE: exposure to the product during pregnancy, exposure to the product while breastfeeding, overdose, medication error, off-label use issue, drug abuse, drug misuse, occupational exposure, product quality complaints/issues, and lack of efficacy. For lack of efficacy definition, refer to Section 10.1.6.

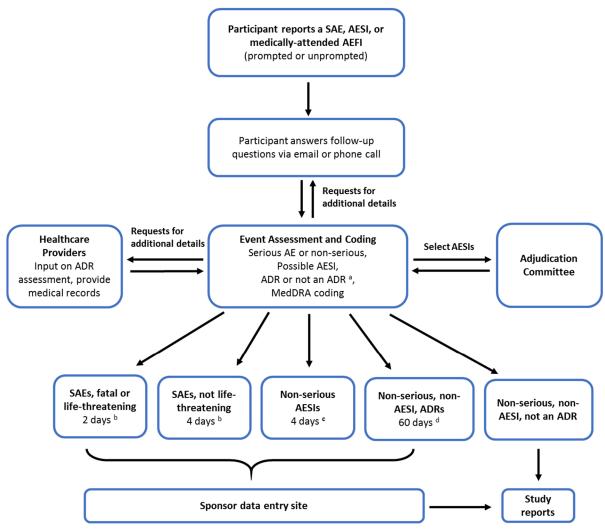
10.3 Adverse Event Reporting

Serious adverse events and AESIs require expedited reporting from non-Sponsor study personnel (CRO) to the Sponsor. Any fatal or life-threatening event must be reported within 2 calendar days and other SAEs and non-serious AESIs within 4 calendar days (Figure 2). Related, non-serious, non-AESI adverse events will be reported to the Sponsor within 60 days.

The Sponsor will report ADRs to the EudraVigilance database within the appropriate timeframe (15 days for serious ADRs and 90 days for non-serious ADRs) and will comply with all other health authority reporting requirements in the EU and elsewhere.

Additional details will be included in a Safety Handling Plan.

Figure 2 Adverse Event Data Collection and Reporting



The primary source for causality information is the participant's HCP. Study personnel will utilise that information to determine if an event was an ADR.

Fatal or life-threatening SAEs must be reported to the Sponsor within 2 calendar days. All other SAEs must be reported to the Sponsor within 4 calendar days.

^c Non-serious AESIs should be reported to the Sponsor with 4 calendar days.

^d For events that are not SAEs and not AESIs but are ADRs, the event should be reported to the Sponsor within 60 days. AE, adverse event; ADR, adverse drug reaction; AEFI, adverse event following immunisation; AESI, adverse events of special interest; HCP, healthcare provider; MedDRA, Medical Dictionary for Regulatory Activities; SAE, serious adverse event.

10.4 Adverse Event Coding

Adverse events and medical history will be classified according to the terminology of the latest version of the Medical Dictionary for Regulatory Activities (MedDRA). Medications will be classified according to the World Health Organization (WHO) Drug Dictionary. A CRO will perform all coding.

10.5 Pregnancies and Outcomes

Pregnancy outcomes and outcomes in neonates/infants will be recorded in separate follow-up questionnaires.

Pregnancy itself is not regarded as an AE unless there is a suspicion that the product may have interfered with the effectiveness of a contraceptive medication.

10.6 Independent Adjudication Committee

One or more Independent Adjudication Committee will be in place with the following mandate:

For select AESIs, the committee will independently review and adjudicate events, determining in a standardised, unbiased manner if the event meets the case definition criteria. AESIs considered for adjudication will include immune-mediated neurological conditions, VAED (including VAERD), embolic and thrombotic events, thrombosis in combination with thrombocytopenia, and thrombocytopenia.

Additional details will be included in the committee charter(s). The committee charter(s) will be reviewed at least quarterly following the review of the AESI list for the Risk Management Plan and updates to the list of AESIs selected for adjudication will be considered contemporaneously.

11. PLANS FOR DISSEMINATING AND COMMUNICATING STUDY RESULTS

The Sponsor plans to prepare quarterly interim reports, as detailed in Section 4. A final report describing the study results will be prepared at the end of study, when the last participant completes the follow-up period or discontinues from the study. An additional combined study report, jointly describing results from this study and the closely related US and UK studies, may also be prepared after the completion of all 3 studies. The Sponsor will provide all interim and final study reports to the relevant regulatory authorities. The Sponsor may also submit interim and/or final results for publication in peer-reviewed journals.

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Ramasamy et al 2021

Ramasamy MN, Minassian AM, Ewer KJ, Flaxman AL, Folegatti PM, Owens DR et al. Safety and immunogenicity of ChAdOx1 nCoV-19 vaccine administered in a prime-boost regimen in young and old adults (COV002): a single-blind, randomised, controlled, phase 2/3 trial. Lancet. 2021;396(10267):1979-93.

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Appendix A List of Stand-alone Documents

Table 6 List of Stand-alone Documents

Number	Date	Title
1	Not yet available	List of investigators and contact information

Appendix B ENCePP Checklist for Study Protocols

Appendix C Participant Questionnaires



Doc.Ref. EMA/540136/2009



ENCePP Checklist for Study Protocols (Revision 4)

Adopted by the ENCePP Steering Group on 15/10/2018

The European Network of Centres for Pharmacoepidemiology and Pharmacovigilance (ENCePP) welcomes innovative designs and new methods of research. This Checklist has been developed by ENCePP to stimulate consideration of important principles when designing and writing a pharmacoepidemiological or pharmacovigilance study protocol. The Checklist is intended to promote the quality of such studies, not their uniformity. The user is also referred to the ENCePP Guide on Methodological Standards in Pharmacoepidemiology, which reviews and gives direct electronic access to guidance for research in pharmacoepidemiology and pharmacovigilance.

For each question of the Checklist, the investigator should indicate whether or not it has been addressed in the study protocol. If the answer is "Yes", the section number of the protocol where this issue has been discussed should be specified. It is possible that some questions do not apply to a particular study (for example, in the case of an innovative study design). In this case, the answer 'N/A' (Not Applicable) can be checked and the "Comments" field included for each section should be used to explain why. The "Comments" field can also be used to elaborate on a "No" answer.

This Checklist should be included as an Annex by marketing authorisation holders when submitting the protocol of a non-interventional post-authorisation safety study (PASS) to a regulatory authority (see the <u>Guidance on the format and content of the protocol of non-interventional post-authorisation safety studies</u>). The Checklist is a supporting document and does not replace the format of the protocol for PASS presented in the Guidance and Module VIII of the Good pharmacovigilance practices (GVP).

Study title: A Phase IV Non-Interventional Enhanced Active Surveillance Study of Adults Vaccinated with AZD1222

EU PAS Register® number: Not yet registered.	
Study reference number (if applicable): D8111R00003	

Sec	tion 1: Milestones	Yes	No	N/A	Section Number
1.1	Does the protocol specify timelines for				
	1.1.1 Start of data collection ¹	\boxtimes			5
	1.1.2 End of data collection ²	\boxtimes			5
	1.1.3 Progress report(s)			\boxtimes	NA
	1.1.4 Interim report(s)	\boxtimes			5
	1.1.5 Registration in the EU PAS Register®		\boxtimes		5
	1.1.6 Final report of study results.	\boxtimes			5

 $^{^{1}}$ Date from which information on the first study is first recorded in the study dataset or, in the case of secondary use of data, the date from which data extraction starts.

² Date from which the analytical dataset is completely available.

Comments:

Interim reports are planned, but progress reports are not. Planned registration date in the EU PAS Register is to be determined.

Sect	ion 2: Research question	Yes	No	N/A	Section Number		
2.1	Does the formulation of the research question and objectives clearly explain:						
	2.1.1 Why the study is conducted? (e.g. to address an important public health concern, a risk identified in the risk management plan, an emerging safety issue)				7		
	2.1.2 The objective(s) of the study?	\boxtimes			7		
	2.1.3 The target population? (i.e. population or subgroup to whom the study results are intended to be generalised)	\boxtimes			7		
	2.1.4 Which hypothesis(-es) is (are) to be tested?				NA		
	2.1.5 If applicable, that there is no <i>a priori</i> hypothesis?				NA		
Com	Comments:						
					·		

Sect	tion 3: Study design	Yes	No	N/A	Section Number
3.1	Is the study design described? (e.g. cohort, case-control, cross-sectional, other design)	\boxtimes			8.2
3.2	Does the protocol specify whether the study is based on primary, secondary or combined data collection?				8.5
3.3	Does the protocol specify measures of occurrence? (e.g., rate, risk, prevalence)	\boxtimes			8.8
3.4	Does the protocol specify measure(s) of association? (e.g. risk, odds ratio, excess risk, rate ratio, hazard ratio, risk/rate difference, number needed to harm (NNH))				8.8
3.5	Does the protocol describe the approach for the collection and reporting of adverse events/adverse reactions? (e.g. adverse events that will not be collected in case of primary data collection)				8.4, 10

Comments:

Measures of occurrence and of association are generally described. Will be specified further in the statistical analysis plan.

Sect	tion 4: Source and study populations	Yes	No	N/A	Section Number
4.1	Is the source population described?	\boxtimes			8.2
4.2	Is the planned study population defined in terms of:				
	4.2.1 Study time period	\boxtimes			5, 8.2
	4.2.2 Age and sex	\boxtimes			8.2, 8.3
	4.2.3 Country of origin	\boxtimes			8.2

<u>Sect</u>	Section 4: Source and study populations		No	N/A	Section Number
	4.2.4 Disease/indication			\boxtimes	8.2
	4.2.5 Duration of follow-up	\boxtimes			8.2
4.3	Does the protocol define how the study population will be sampled from the source population? (e.g. event or inclusion/exclusion criteria)				8.2, 8.3

Comments:

Disease/indication is not applicable for this vaccine study that will enroll adults previously vaccinated.

Sect	ion 5: Exposure definition and measurement	Yes	No	N/A	Section Number
5.1	Does the protocol describe how the study exposure is defined and measured? (e.g. operational details for defining and categorising exposure, measurement of dose and duration of drug exposure)				8.2
5.2	Does the protocol address the validity of the exposure measurement? (e.g. precision, accuracy, use of validation sub-study)				8.2
5.3	Is exposure categorised according to time windows?				8.2
5.4	Is intensity of exposure addressed? (e.g. dose, duration)				NA
5.5	Is exposure categorised based on biological mechanism of action and taking into account the pharmacokinetics and pharmacodynamics of the drug?				NA
5.6	Is (are) (an) appropriate comparator(s) identified?			\boxtimes	NA

Comments:

Study is non-interventional and participants will receive AZD1222 prior to enrolment. There is no comparator for this study.

Sect	ion 6: Outcome definition and measurement	Yes	No	N/A	Section Number
6.1	Does the protocol specify the primary and secondary (if applicable) outcome(s) to be investigated?				7
6.2	Does the protocol describe how the outcomes are defined and measured?				7, 8.4
6.3	Does the protocol address the validity of outcome measurement? (e.g. precision, accuracy, sensitivity, specificity, positive predictive value, use of validation substudy)				8.8, 8.10
6.4	Does the protocol describe specific outcomes relevant for Health Technology Assessment? (e.g. HRQoL, QALYS, DALYS, health care services utilisation, burden of disease or treatment, compliance, disease management)				7, 8.4

Com	Comments:				
Sect	ion 7: Bias	Yes	No	N/A	Section Number
7.1	Does the protocol address ways to measure confounding? (e.g. confounding by indication)				8.8, 8.10
7.2	Does the protocol address selection bias? (e.g. healthy user/adherer bias)	\boxtimes			8.8, 8.10
7.3	Does the protocol address information bias? (e.g. misclassification of exposure and outcomes, time-related bias)				8.8, 8.10
Com	ments:				
Sect	ion 8: Effect measure modification	Yes	No	N/A	Section
Seci	ion 6. Effect measure mounication	163	140	II/A	Number
8.1	Does the protocol address effect modifiers? (e.g. collection of data on known effect modifiers, sub-group analyses, anticipated direction of effect)				8.8
Com	ments:				
Cast	ion O. Doto courses	Vaa	N.	NI / A	Castian
<u>seci</u>	<u>ion 9: Data sources</u>	Yes	No	N/A	Section Number
9.1	Does the protocol describe the data source(s) used in the study for the ascertainment of:				
	9.1.1 Exposure? (e.g. pharmacy dispensing, general practice prescribing, claims data, self-report, face-to-face interview)	\boxtimes			8.2, 8.4, 8.5
	9.1.2 Outcomes? (e.g. clinical records, laboratory markers or values, claims data, self-report, patient interview including scales and questionnaires, vital statistics)	\boxtimes			8.4, 8.5
	9.1.3 Covariates and other characteristics?				8.4, 8.5
9.2	Does the protocol describe the information available from the data source(s) on:				
	9.2.1 Exposure? (e.g. date of dispensing, drug quantity, dose, number of days of supply prescription, daily dosage, prescriber)				NA
	9.2.2 Outcomes? (e.g. date of occurrence, multiple event, severity measures related to event)				8.4, 8.5
	9.2.3 Covariates and other characteristics? (e.g. age, sex, clinical and drug use history, co-morbidity, co-medications, lifestyle)	\boxtimes			8.4, 8.5
9.3	Is a coding system described for:				
	9.3.1 Exposure? (e.g. WHO Drug Dictionary, Anatomical Therapeutic Chemical (ATC) Classification System)				10.4
	9.3.2 Outcomes? (e.g. International Classification of Diseases (ICD), Medical Dictionary for Regulatory Activities (MedDRA))				10.4

9.3.3 Covariates and other characteristics?

10.4

 \boxtimes

Section 9: Data sources	Yes	No	N/A	Section		
O.A. Tara limitary months of backurary data assumed				Number		
9.4 Is a linkage method between data sources described? (e.g. based on a unique identifier or other)				9.3		
Comments:						
Section 10: Analysis plan	Yes	No	N/A	Section Number		
10.1 Are the statistical methods and the reason for their choice described?				8.8, 8.10		
10.2 Is study size and/or statistical precision estimated?	\boxtimes			8.8		
10.3 Are descriptive analyses included?	\boxtimes			8.8		
10.4 Are stratified analyses included?	\boxtimes			8.8		
10.5 Does the plan describe methods for analytic control of confounding?	\boxtimes			8.8, 8.10		
10.6 Does the plan describe methods for analytic control of outcome misclassification?						
10.7 Does the plan describe methods for handling missing data?	\boxtimes			8.8		
10.8 Are relevant sensitivity analyses described?	\boxtimes			8.8		
Comments:						
Outcomes are verified at the point of data collection via n assessment by adjudication committee. Non-reporting of analyses.						
Section 11: Data management and quality control	Yes	No	N/A	Section Number		
11.1 Does the protocol provide information on data storage? (e.g. software and IT environment, database maintenance and anti-fraud protection, archiving)				8.7		
11.2 Are methods of quality assurance described?	\boxtimes			8.9		
11.3 Is there a system in place for independent review of study results?				NA		
Comments:						
There is no plan for an independent data monitoring committee, but there will be a Scientific Committee set up to support and oversee the study (Section 8.11). There will also be an Independent Adjudication Committee that will review selected events (Section 10.6).						
Section 12: Limitations	Yes	No	N/A	Section Number		
12.1 Does the protocol discuss the impact on the study results of:						
12.1.1 Selection bias?				8.10		
12.1.2 Information bias?				8.10		

Section 12: L	<u>imitations</u>	Yes	No	N/A	Section Number
(e.g. antic	esidual/unmeasured confounding? pated direction and magnitude of such biases, sub-study, use of validation and external data, nethods).				8.10
(e.g. study	e protocol discuss study feasibility? size, anticipated exposure uptake, duration of n a cohort study, patient recruitment, precision of the				8.10
Comments:					
Section 13: E	thical/data protection issues	Yes	No	N/A	Section Number
	uirements of Ethics Committee/ onal Review Board been described?	\boxtimes			9
13.2 Has any been add	outcome of an ethical review procedure dressed?				NA
13.3 Have da describe	ta protection requirements been d?				9.3
Comments:					
There has not	been an ethical review procedure to date.				
	mendments and deviations	Yes	No	N/A	
Section 14: A		Yes	No	N/A	
Section 14: A 14.1 Does the amendm	mendments and deviations e protocol include a section to document	Yes	No		Number
Section 14: A 14.1 Does the amendm Comments:	e protocol include a section to document ents and deviations? 1.0 of the protocol. An amendments section				
Section 14: A 14.1 Does the amendm Comments: This is version protocol is am Section 15: F	e protocol include a section to document ents and deviations? 1.0 of the protocol. An amendments section				Number NA
Section 14: A 14.1 Does the amendm Comments: This is version protocol is am Section 15: Fresults 15.1 Are plan	e protocol include a section to document ents and deviations? 1.0 of the protocol. An amendments section ended.	n will be	addeo	I if and v	NA NA vhen the
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Protocol Appendix, Participant Questionnaires

Active substance AZD1222

Study code D8111R00003

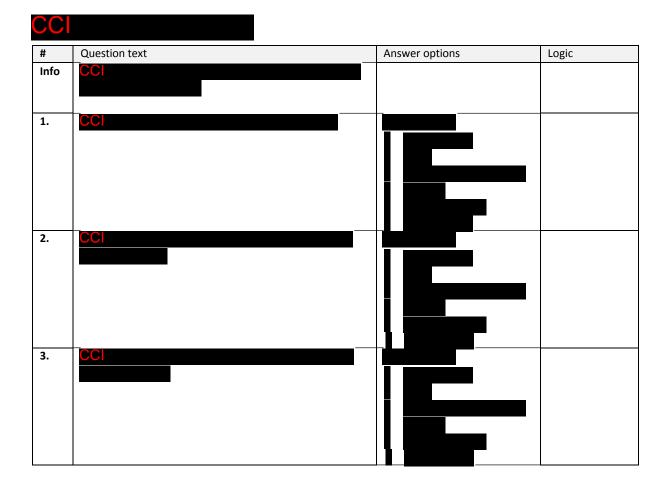
Version number 2.0

A Phase IV Non-Interventional Enhanced Active Surveillance Study of Adults Vaccinated with AZD1222

Participant Questionnaires

TABLE OF CONTENTS

TITLE PAGE	1
TABLE OF CONTENTS	2
CCI	3
Anti-fever and anti-pain medication	4
Background information	5
Initial breastfeeding status	7
Breastfeeding update	10
Health status	12
Infant follow-up at age 12 months	
Medical history	16
Other vaccines	19
Second vaccination details	20
Pregnancy follow-up	22
Pre-screening questionnaire	25
Initial pregnancy status	26
Pregnancy update	29
Profile questionnaire	
CCI	33
First vaccination details	35
Personalise your tasks	37



Anti-fever and anti-pain medication

#	Question text	Answer options	Logic
1.	In order to prevent/treat symptoms that could be related to	MCQ (boolean)	If 'Yes' – 1.1
	vaccination	• Yes	
		• No	
	[FR] did you take any anti-fever or pain-relieving medication such		
	as paracetamol (e.g. Doliprane or Dafalgan) or ibuprofen (e.g. Advil		
	or Nurofen) within five days of your dose of COVID-19 vaccine?		
	550 (50) 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	[ES/CA] did you take any anti-fever or pain-relieving medication		
	such as paracetamol (e.g. Gelocatil or Dolocatil) or ibuprofen (e.g.		
	Espidifen or Espididol) within five days of your dose of COVID-19 vaccine?		
	vacciner		
	[DE] did you take any anti-fever or pain-relieving medication such		
	as paracetamol (e.g. Ben-u-ron or Paracetamol-ratiopharm) or		
	ibuprofen (e.g. Ibuflam or IbuHEXAL) within five days of your dose		
	of COVID-19 vaccine?		
	[SE] did you take any anti-fever or pain-relieving medication such		
	as paracetamol (e.g. Alvedon or Panodil) or ibuprofen (e.g. Ipren		
	or Ibumetin) within five days of your dose of COVID-19 vaccine?		
1.1	Did you start to take the medication before or after vaccination?	MCQ (boolean)	If 'Before' –
		Before	1.2a
		After	If 'After' – 1.2b
1.2a	How many days before vaccination did you start to take the	MCQ (boolean)	
	medication? (0 = day of vaccination)	• 0	
		• 1	
		• 2	
		• 4	
		• 5	
1.2b	How many days after vaccination did you start to take the	MCQ (boolean)	
	medication? (0 = day of vaccination)	• 0	
		• 1	
		• 2	
		• 3	
		• 4 • 5	
1.3	Are you still taking the medication in order to prevent/treat	MCQ (boolean)	If 'No' – 1.3.1
1.5	symptoms that could be related to vaccination?	• Yes	110 1.3.1
	Symptoms that could be related to vaccination:	• No	
1.3.1	For how many days did you take the medication?	Numerical input	
		(Number of, days)	
L		(

Background information

#	Question text	Answer options	Logic
1.	How old are you?	Numerical field (Age in years, years old)	
Info	Please scroll up and ensure you entered your age correctly.		
2.	What sex were you assigned at birth?	MCQ (boolean) Male Female Intersex	
Info	Please scroll up and ensure you entered your sex correctly.		
3.	What is your current gender identity?	 MCQ (boolean) Male Female Non-binary Other Prefer not to say 	If 'Other' – 3.1
3.1	Please specify your gender identity.	[free text]	
4.	What is your country of residence?	[country drop down list]	
5.	What is your country of birth?	[country drop down list]	
6.	How much do you weigh (kg)? If you are pregnant, please report your weight prior to pregnancy.	Numerical input (Weight, kg)	
7.	What is your height?	Numerical field (Height, cm)	
8.	What is your current employment status?	MCQ (boolean) • Employed • Unemployed • Retired • Self-employed • Student • Other	If 'Other' – 8.1a If 'Employed' – 8.1b
8.1a	Please specify	[free text]	

8.1b	Do you work at a healthcare or long-term care facility?	MCQ (boolean) • Yes • No	
9.	What is your current smoking status?	 MCQ (boolean) Never smoked (or less than 100 cigarettes in your lifetime) Former smoker Current smoker 	If 'Former smoker' – 9.1
9.1	How long ago did you stop smoking?	MCQ (boolean)<1 year1-5 years>5 years	

Initial breastfeeding status

#	Question text	Answer options	Logic
1.	Are you currently breastfeeding?	MCQ (boolean) • Yes	If 'Yes' –2 If 'No' - END
2	How many weeks pregnant were you when you gave birth?	No Drop down [22-45] (Number of, weeks)	
3	Were there any complications at birth?	MCQ (boolean) • Yes • No	If 'Yes' – 3.1
3.1	Please specify the complications.	[smart text] List builder	
4	Were you ever told by a medical professional that this pregnancy was high-risk (e.g. due to gestational diabetes or pre-eclampsia)?	MCQ (boolean) • Yes • No	If 'Yes' – 4.1
4.1	Which high-risk condition(s) did you have?	[smart text] List builder	
5.	Is there a family history of birth defects or genetic disorders?	MCQ (boolean) • Yes • No • Don't know	If 'Yes' – 5.1
5.1	Please specify which defect(s) or disorder(s).	[smart text] List builder	
6.	How many children are you breastfeeding?	MCQ (boolean) 1 2 3	If '1' – 6a.1 If '2'/'3' – For each child, loop 6b
6a.1	How old (in months) is the child you are breastfeeding?	Drop down [1-36] (Number of, months)	If <6 - 6a.1.1
6a.1.1	Is your child only receiving breastmilk and no other liquids or solids, not even water?	MCQ (boolean) • Yes • No	
6a.2	How much did your child weigh at birth?	Numeric input (Weight, kg)	

		1	
6a.3	Are you aware of your child having any birth defect or has a medical doctor ever told you that your child has any developmental issues?	MCQ (boolean) • Yes	If 'Yes' – 6a.3.1
	any developmental issues.	• No	
		[smart text]	
6a.3.1	Please specify the birth defect(s) and/or	[Sillart text]	
0a.3.1	developmental issue(s).	List builder	
		List ballaci	
		MCQ (boolean)	
6a.4	Does your child have any other chronic or recurrent	Wicq (boolean)	If 'Yes' – 6a.4.1
00.4	health condition(s)?	• Yes	11 103 00.4.1
		No [smart text]	
6a.4.1	Please specify which condition(s).	[Smart text]	
04.4.1	riease specify which condition(s).	List builder	
		List builder	
		MCQ (boolean)	
6a.5	Has your child taken any medication in the last	MCQ (boolean)	If 'Yes' – 6a.5.1
04.5	month?	- V	11 165 - 08.5.1
		• Yes	
		• No	
6a.5.1	Was the medication prescribed by a dector?	MCQ (boolean)	If 'Yes' – 6a.5.2
04.5.1	Was the medication prescribed by a doctor?	a Var	11 Yes - ba.5.2
		• Yes	
		• No	
6a.5.2	For what condition(s) did your child take the	[smart text]	
0d.5.Z	medication?	List builder	
		List bulluel	
	Now we will ask questions about your [first, second,		
6b (Info)	third] child.		
	timuj cima.		
	How old (in months) is the [first, second, third] child	Drop down [1-36]	
6b.1	you are breastfeeding?	(Number of, months)	If <6 – 6b.1.1
	you are breastreeaing.	(Namber of, months)	
	Is your [first, second, third] child only receiving	MCQ (boolean)	
6b.1.1	breastmilk and no other liquids or solids, not even	IVICQ (DODIEGII)	
00.1.1	water?	• Yes	
	water.	• No	
	How much did your [first, second, third] child weigh at	Numeric input	
6b.2	birth?	(Weight, kg)	
		(**************************************	
	Are you aware of your [first, second, third] child		
	having any birth defect or has a medical doctor ever	MCQ (boolean)	
6b.3	told you that your child has any developmental		If 'Yes' – 6b.3.1
	issues?	• Yes	
	13463.	• No	
		[smart text]	
6b.3.1	Please specify the birth defect(s) and/or	[Sindic text]	
	developmental issue(s).	List builder	
		l	

6b.4	Does your [first, second, third] child have any other chronic or recurrent health conditions?	MCQ (boolean) • Yes • No	If 'Yes' – 6b.4.1
6b.4.1	Please specify which conditions.	[smart text] List builder	
6b.5	Has your [first, second, third] child taken any medication in the last month?	MCQ (boolean) • Yes • No	If 'Yes' – 6b.5.1
6b.5.1	Was the medication prescribed by a doctor?	MCQ (boolean) • Yes • No	If 'Yes' – 6b.5.2
6b.5.2	For what condition(s) did your child take the medication?	[smart text] List builder	

Breastfeeding update

#	Question text	Answer options	Logic
1.	Are you currently breastfeeding?	MCQ (boolean)	If 'No' – 1.1
		YesNo	
1.1	When did you stop? Please approximate the date if you do not remember exactly.	Submission date	
		(day/month/year)	
2.	Since we last asked about the child/children you are/were breastfeeding, has the child/children experienced any new or worsening symptom(s) or health issue(s) that resulted in:	MCQ (multi-choice) A remote (e.g. by phone or video) or in person consultation with a medical doctor, emergency room visit, or hospitalization A significant or long-term disability or incapacitation (e.g. inability to move or function properly) None of the above	If 'None of the above' — END
3.	For how many children that you are/were breastfeeding are you reporting these new or worsening symptom(s) or health issue(s)?	MCQ (boolean) • 1 • 2 • 3	If '1' – 4a If '2' / '3' – For each child, loop 4b
4a	Could you briefly describe the new or worsening health issue(s) for the child that you are/were breastfeeding?	[smart text] List builder	
4a.1	Because of the health issue(s), did the child do any of the below? Select all that apply.	MCQ (multi-choice) Consult either remotely (e.g. by phone or video) or in person a medical doctor Visit the emergency room Hospitalized for at least one night	
4a.2	Did the child receive a diagnosis?	MCQ (boolean) • Yes • No	If 'Yes' – 4a.2.1

4a.2.1	Please specify the diagnosis. You may report may than one if applicable.	[smart text] List builder	
4b (info)	Now we will ask questions about your [first, second, third] child.		
4b.1	Could you briefly describe the new or worsening health issue(s) for the [first, second, third] child that you are/were breastfeeding?	[smart text] List builder	
4b.2	Because of the health issue(s), did the child do any of the below? Select all that apply.	MCQ (multi-choice) Consult either remotely (e.g. by phone or video) or in person a medical doctor Visit the emergency room Hospitalized for at least one night	
4b.3	Did the [first, second, third] child receive a diagnosis?	MCQ (boolean) • Yes • No	If 'Yes' – 4a.3.1
4b.3.1	Please specify the diagnosis. You may report may than one if applicable.	[smart text] List builder	

Health status

#	Question text	Answer options	Logic
1	Since the last time we asked about your health status, have you experienced any <u>new</u> or <u>worsening</u> symptoms or health problem(s) that have resulted in:	 A remote (e.g. by phone or video) or in person consultation with a medical doctor, emergency room visit, or hospitalization A significant or long-term disability or incapacitation (e.g. inability to move or function properly) None of the above 	Notification to the portal if options 1/2 If 'None of the above' OR 'Don't know' – END
Info	For each health problem or set of symptoms, we would like to ask you 10 to 15 questions to better understand what you experienced.		
2	Thinking now about the * new or worsening health problem or set of symptoms that resulted in a medical doctor consultation, emergency room visits, hospitalization, or a significant/long-term disability or incapacitation		
2.1	Have you reported any information about this health problem to us before?	MCQ (boolean) • Yes • No • Don't know	
2.2	Could you please tell us about each symptom associated with the health problem?	[smart text] List builder	For each symptom in list, loop 2.2.1 – 2.2.4
2.2.1	How intense was the <symptom>?</symptom>	MCQ (boolean) Mild – easily tolerated, did not interfere with everyday activities Moderate – interfered with normal activities Severe – incapacitating, unable to perform normal activities	
2.2.2	When did the <symptom> start? Please approximate the date if you are not sure.</symptom>	Submission date (day/month/year)	
2.2.3	Has the <symptom> resolved?</symptom>	MCQ (boolean) • Yes • No	If 'Yes' – 2.2.4 If 'No' – End loop
2.2.4	When did the <symptom> resolve? Please approximate the date if you are not sure.</symptom>	Submission date (day/month/year)	
2.3	Because of the health problem, did you do any of the below. Select all that apply.	MCQ (multi-choice) • Consult either remotely (e.g. by phone or video) or in person a medical doctor	If 'Consult either remotely (e.g. by phone or video) or

2.3.1	How many times did you consult a medical doctor in person? How many times did you consult a medical	 Visit the emergency room Were hospitalized for at least one night Were admitted to critical/intensive care Numerical field (Number of, times) Numerical field	in person a medical doctor' – 2.3.1 / 2.3.2 If 'Were hospitalized for at least one night' – 2.3.3
	doctor remotely?	(Number of, times)	
2.3.3	For how many nights were you hospitalized?	Numerical field (Number of, nights)	
2.4	Were you prescribed any medication for the health problem?	MCQ (boolean) • Yes • No	If 'Yes' - 2.4.1
2.4.1	Please specify any medication(s) you were	[smart text]	Skip enabled
	prescribed.	List builder	15.04 1 0 7 4
2.5	Did you receive a diagnosis for the health problem?	MCQ (boolean) • Yes	If 'Yes' – 2.5.1
	problem?	• Yes	
		• Don't know	
2.5.1	Please specify the diagnosis. You may report	[smart text]	
	more than one if applicable.	List builder	
2.6	Did the health problem cause you to lose any	MCQ (boolean)	If 'Yes' - 2.6.1
	days of work or education?	YesNoNot applicable (Do not work or go to school)	
2.6.1	How many days of work?	Numerical field (Number of, days)	Skip enabled
2.6.2	How many days of education?	Numerical field	Skip enabled
		(Number of, days)	
2.7	Did you or your healthcare provider suspect that	MCQ (boolean)	If 'Yes' - 2.7.1
	the health problem could be related to COVID-	• Yes	
	19 or did you receive a diagnosis for COVID-19?	• No	
2.7.1	Did you take a COVID-19 test?	MCQ (boolean)	If 'Yes' – 2.7.1.1
	, , , , , , , , , , , , , , , , , , , ,	• Yes	
		• No	
		Don't know	
2.7.1.1	How many tests did you take?	Drop down [1-10]	For each test, loop
		(Number of, tests)	2.7.1.1.1 -
	<u> </u>		2.7.1.1.3
Info	We will now ask you more information about		
27444	each Covid-19 test	Culturalization alab	
2.7.1.1.1	About when did you take the * test?	Submission date	
	Please approximate the date if you are not sure.	(day/month/year)	

2.7.1.1.2	How was the test performed?	MCQ (boolean)	If 'Other' –
		Nose/throat swab	2.7.1.1.2.1
		Saliva	
		Blood or finger prick	
		Other	
		Don't know	
2.7.1.1.2.1	Please specify the test method.	[free text]	
2.7.1.1.3	What was the result?	MCQ (boolean)	
		Positive	
		Negative	
		Inconclusive	
		Pending	
		Don't know	
2.8	Did you experience any other new or worsening	MCQ (boolean)	If 'Yes' – 2
	symptoms or health problems that resulted in	• Yes	
	remote or in person consultation with a medical	• No	
	doctor, emergency room visit, hospitalization, or		
	a significant or long-term		
	disability/incapacitation?		

^{* [}first, second, third, fourth, fifth, sixth, seventh, eighth, ninth, tenth, eleventh, twelfth, thirteenth, fourteenth, fifteenth]

Infant follow-up at age 12 months

Only complete this task if it's been approximately 12 months since you had a live birth from the pregnancy you reported around the time of COVID-19 vaccination. Otherwise, please exit the task and complete it at the appropriate time.		
Did the pregnancy you reported around the time of COVID-19 vaccination result in a live birth?	MCQ (boolean) • Yes • No	If 'Yes' – 2 If 'No' - END
Did you have more than one child in that pregnancy?	MCQ (boolean) • Yes • No	If 'Yes' - 2.1. If 'No' - 3
How many children did you have from this pregnancy?	MCQ (boolean) • 2 • 3	For each child, loop 2.2 (incl. Info) – 2.3
Now we will ask questions about your [first, second, third] child.		
Are you aware or has a medical doctor informed you of any developmental issues with your [first, second, third] child?	MCQ (boolean) • Yes • No	If 'Yes' - 2.2.1 If 'No' - 2.3
What was/is the issue?	[smart text] List builder	
If you have anything else you would like to report about the [first, second, third] child's health, please specify.	[free text]	
Are you aware or has a medical doctor informed you of any developmental issues with your child?	MCQ (boolean) • Yes • No	If 'Yes' - 3.1 If 'No' - 3.2
What was/is the issue?	[smart text] List builder	
If you have anything else you would like to report about your child's health, please specify.	[free text]	
	since you had a live birth from the pregnancy you reported around the time of COVID-19 vaccination. Otherwise, please exit the task and complete it at the appropriate time. Did the pregnancy you reported around the time of COVID-19 vaccination result in a live birth? Did you have more than one child in that pregnancy? How many children did you have from this pregnancy? Now we will ask questions about your [first, second, third] child. Are you aware or has a medical doctor informed you of any developmental issues with your [first, second, third] child? What was/is the issue? If you have anything else you would like to report about the [first, second, third] child's health, please specify. Are you aware or has a medical doctor informed you of any developmental issues with your child? What was/is the issue?	since you had a live birth from the pregnancy you reported around the time of COVID-19 vaccination. Otherwise, please exit the task and complete it at the appropriate time. Did the pregnancy you reported around the time of COVID-19 vaccination result in a live birth? Did you have more than one child in that pregnancy? Did you have more than one child in that pregnancy? MCQ (boolean) Yes No What was/is the issue? If you have anything else you would like to report about the [first. second, third] child's health, please specify. MCQ (boolean) Yes No MCQ (boolean) Yes No If you have anything else you would like to report about the [first. second, third] child's health, please specify. MCQ (boolean) Yes No MCQ (boolean) Yes No If you have anything else you would like to report about the [first. second, third] child's health, please specify.

Medical history

#	Question text	Answer options	Logic
1	Have you been diagnosed with cancer?	MCQ (boolean)	If 'Yes' – 1.1
		• Yes	
		• No	
1.1	Please specify which type of cancer?	[smart text]	For each cancer,
		List builder	loop 1.2 – 1.3
1.2	Are you currently taking medication or	MCQ (boolean)	
	being treated for the <cancer type="">?</cancer>	• Yes	
		• No	
1.3	Was/Is the <cancer type=""> metastatic</cancer>	MCQ (boolean)	
	(i.e. did/has it spread)?	• Yes	
		• No	
		• Don't know	15/21 5.1
2	Have you been diagnosed with any of	MCQ (multi-choice)	If 'None of the
	the following medical conditions?	 Chronic respiratory condition (e.g. asthma, COPD - Chronic obstructive Pulmonary 	above' – 3
		disease, etc.)	
		 Diabetes (e.g. type 1, 2 or gestational) 	
		Cerebrovascular condition (e.g. stroke,	
		transient ischemic disease, etc.)	
		Heart disease (e.g. heart attack,	
		arrhythmias, Angina pectoris, heart failure,	
		etc.)	
		Other cardiovascular disease (e.g. deep vein thrombosis, etc.)	
		Bleeding disorder (e.g. heavy/excessive	
		bleeding, easy bruising, haemophilia, etc.)	
		Chronic kidney disease	
		• Liver disease (e.g. cirrhosis, hepatitis, Fatty	
		liver disease, etc.)	
		 Auto-immune disease (e.g. Rheumatoid Arthritis, Lupus, Crohn's Disease, etc.) 	
		Solid organ transplant recipient (e.g.	
		kidney, liver, etc.)	
		Neuroimmune condition (e.g. multiple	
		sclerosis, myelitis, etc.)	
		Other condition which affects your immune system (e.g. HIV, etc.)	
		Allergic condition (e.g. eczema, food	
		allergies, etc.)	
		Depression/Anxiety	
		Viral/bacterial infection leading to hospital	
		admission (e.g. pneumonia, etc.)	
		Other chronic condition (e.g.	
		hypertension) or condition for which you	
		have been treated or taken medication in the last month	
	1	מוכ ומגר וווטוונוו	

		None of the above	
2.1	Please specify which medical condition(s).	[smart text] List builder	For each condition, loop 2.2.
2.2	Are you currently taking medication or being treated for <condition>?</condition>	MCQ (boolean) • Yes • No	
3	Are you currently taking any immunosuppressant medication (i.e. medication that lowers the activity of the immune system)? Some common immunosuppressants are tracrolimus, cyclosporine, corticosteroids such as prednisone, or methotrexate.	MCQ (boolean) • Yes • No • Don't know	If 'Yes' – 3.1
3.1	Which immunosuppressant medication(s) are you taking?	[smart text] List builder	
4	Do you believe that you have had a COVID-19 infection in the past?	MCQ (boolean) • Yes • No	If 'Yes' – 4.1
4.1	About when did you have the COVID-19 infection? Please approximate the date if you are not sure.	Submission date (day/month/year)	
5	Have you been told by a medical professional that you may have had COVID-19?	MCQ (boolean) • Yes • No	If 'Yes' – 5.1
5.1	When were you told that you had COVID-19? Please approximate the date if you are not sure.	Submission date (day/month/year)	
6	Have you ever taken a COVID-19 test?	MCQ (boolean) • Yes • No • Don't know	If 'Yes' – 6.1
6.1	What were the results of your COVID-19 test(s)?	 MCQ (boolean) None of my tests were positive At least one of my tests was positive Pending (I am waiting for test results) 	If 'At least one of my tests was positive' – 6.1.1
6.1.1	What was the date of your first positive test? Please approximate the date if you are not sure.	Submission date (day/month/year)	
6.1.2	How was the test performed?	MCQ (boolean) Nose/throat swab Saliva Blood or finger prick Other	If 'Other' – 6.1.3

		Don't know	
6.1.3	Please specify how the test was performed.	[free text]	
7.	Did you experience any COVID-19 symptoms? [If 'Yes' to Q4 / Q5 or 'At least one of my tests was positive' for Q6.1]	MCQ (boolean) • Yes • No	If 'Yes' - 7.1
7.1	Could you please tell us which COVID-19 symptoms you experienced?	MCQ (multi-choice) Fever Shortness of breath Chest pain Cough Fatigue/Tiredness Aches and pains Headache Diarrhoea/vomiting Sleep disturbances Loss of smell or taste	For each symptom, loop 7.1.1 – 7.1.2
7.1.1	Could you please rate the intensity of <symptom> on a scale from 0 (none) to 10 (worst imaginable)?</symptom>	Horizontal scale (0-10)	
7.1.2	Did the <symptom> persist after you were no longer infected?</symptom>	MCQ (boolean) • Yes • No • Don't know	
7.2	Did you experience any other COVID-19 symptoms not already mentioned?	MCQ (boolean) • Yes • No	If 'Yes' – 7.2.1
7.2.1	Please specify which symptom(s).	[smart text] List builder	For each symptom, loop 7.2.1.1 – 7.2.1.2
7.2.1.1	Could you please rate the intensity of <symptom> on a scale from 0 (none) to 10 (worst imaginable)?</symptom>	Horizontal scale (0-10)	
7.2.1.2	Did the <symptom> persist after you were no longer infected?</symptom>	MCQ (boolean) • Yes • No • Don't know	
8	Due to your COVID-19 infection or symptoms, have you [If 'Yes' to Q4 / Q5 or 'At least one of my tests was positive' for Q6.1]	 MCQ (multi-choice) Visited the emergency room? Been hospitalized and stayed at least one night? Been admitted to critical/intensive care? 	Skip enabled

Other vaccines

#	Question text	Answer options	Logic
1	Have you received the seasonal flu vaccine since the last time we asked?	MCQ (boolean) • Yes • No	If 'Yes' – 1.1
1.1	When were you vaccinated?	Submission date (day/month/year)	
2	Have you received any other vaccinations since the last time we asked?	MCQ (boolean) • Yes • No	If 'Yes' – 2.1
2.1	Please specify which vaccine.	 MCQ (multi-choice) DTPa, Diptheria, Tetanus, Pertussis or Polio (e.g. Boostrix, Repevax, Revaxis, Imovax) Hepatitis A or B (e.g. Vaqta, Havrix, Twinrix, Avaxim, Engerix) HPV (e.g. Gardasil or Cervarix) Meningitis (e.g. Bexsero, Menjugate 10, Neisvac, Menveo, Nimenrix) Pneumococcus (e.g. Prevenar13, Pneumovax23) Shingles (e.g. Shingrix) Other 	
2.2	Enter the vaccination(s) you received. If you don't remember the name of the vaccination, enter 'Other' below.	[smart text] List builder	For each vaccine, loop 2.3
2.3	When were you vaccinated with the <vaccine name="">? Please approximate the date if you do not remember exactly.</vaccine>	Submission date (day/month/year)	

Second vaccination details

#	Question text	Answer options	Logic
Info	If you have a vaccination card, please ensure to have it available as we will ask for a photo.		
1	Could you provide the date of your second COVID-19 vaccination dose.	Submission date (day/month/year)	
Info	Please scroll up and confirm that you entered the date of your second dose correctly.		
1.2	Did you receive the AstraZeneca vaccine for your second dose?	MCQ (boolean) • Yes • No	If 'No' – 1.2.1
1.2.1	Which brand of vaccine did you receive for your second dose?	 MCQ (boolean) Moderna (mRNA-1273) Pfizer-BioNTech (COMIRNATY or BNT162b2) Janssen (Ad26.COV2.S) Novavax (NVX-CoV2373) Bharat Biotech (Covaxin) FBRI (EpiVacCorona) Gamaleya (Sputnik V) Serum Institute of India (Covishield) Sinopharm (BBIBP-CorV) Sinovac (Coronavac) 	Go to 1.4
1.3	Could you please provide the batch number of the vaccine you received? This number, also called the lot number, should be written on your vaccine card/record or may have been provided to you by your vaccination site in digital format. If you have lost your vaccination card, enter '99'. Otherwise, please enter the number as best as you can even if it is difficult to read. [Hyperlink to example vaccination card]	Text field (Enter batch number)	Validate against backend list. If no match, flag to the portal for manual checking and prompt the user with this error: "Invalid batch number. Please check your entry again. If the issue persists, continue to the next question. Your study team might contact you directly

			to validate your batch number."
1.4	Were you vaccinated in the same place as your first dose?	MCQ (boolean) • Yes • No	If 'No' – 1.4.1
1.4.1	Where were you vaccinated for the second dose?	 MCQ (boolean) Primary healthcare provider Other doctor office or clinic Hospital Pharmacy or drugstore At work Public health clinic or veteran's administration facility School or student health clinic Military base Mobile vaccination unit Other mass vaccination center (i.e. not in above locations) Airport Other 	If 'Other' – 1.4.2 If ANY but 'Other' – 1.4.3
1.4.2	Please specify where.	[free text] (Vaccination location)	
1.4.3	Please specify the city/town.	[free text] (City/town)	
Info	After you have submitted this questionnaire, please remember to securely upload a photo of your vaccination card/record in your Profile under the Personal Documents section.		

Pregnancy follow-up

#	Question text	Answer options	Logic
Info	Only complete this task if it's been approximately 12 months since you became pregnant . Otherwise, please exit the task and complete it at the appropriate time.		
1	Did you take any prescription medication(s) while pregnant?	MCQ (boolean) • Yes • No	If 'Yes' - 1.1
1.1	Please specify the prescription medication(s).	[smart text] List builder	
2	Did you take any over-the-counter medication(s) while pregnant?	MCQ (boolean) • Yes • No	If 'Yes' - 2.1
2.1	Please specify the over-the-counter medication(s).	[smart text] List builder	
3	Were you carrying a single baby or more than one (i.e. twins or more)?	MCQ (boolean) • Single baby • More than one • Don't know	If 'Single Baby' / 'Don't know' – 4a If 'More than one' 4b
4a.	Could you please tell us the outcome of your pregnancy?	MCQ (boolean) • Live birth • Miscarriage (<20 weeks gestation) • Elective abortion/termination of pregnancy • Stillbirth (≥20 weeks gestation) • Ectopic pregnancy • Other	If 'Other' – 4a.1a If 'Live birth' – 4a.1b If 'Miscarriage, Elective abortion/ termination of pregnancy, Stillbirth, Ectopic pregnancy' – END
4a.1a	Please specify the outcome(s).	[smart text] List builder	END
4a.1b	What was the date of delivery?	Submission date (day/month/year)	Go to 4a.1c
4a.1c	How many weeks pregnant were you when you gave birth?	Numerical field (Number of, weeks)	
4a.2	What was the baby's gender?	MCQ (boolean) • Male • Female • Intersex	
4a.3	What was the method of delivery?	MCQ (boolean) • Vaginal delivery • Caesarean section	
4a.4	Did you breastfeed the baby?	MCQ (boolean) • Yes • No	If 'Yes' – 4a.4.1

	T	NACO (Is a sile ser)	T
4a.4.1	Are you currently breastfeeding?	MCQ (boolean) Yes No	If 'No' – 4a.4.1.1
4a.4.1.1	Until how many weeks did you	Numerical input	
44.4.1.1	breastfeed the baby?	· ·	
		(Number of, weeks)	
4a.4.2	Did your baby only receive breastmilk	MCQ (boolean)	
	and no other liquids or solids, not even	• Yes	
	water during the first two weeks?	• No	
		MCQ (boolean)	
4a.5	Were there any issues or complications	• Yes	If 'Yes' – 4a.5.1
	with your pregnancy, delivery, or baby?	• No	
		Don't know	
4a.5.1	Please specify the issues and/or	[smart text]	
	complications.	List builder	
		MCQ (boolean)	
4b		• 2	For each baby, loop 4b.1
	How many babies were you carrying?	• 3	(incl. Info) - 4b.5
		• 4	(
		• 5	
Info	Now we will ask questions about your		
	[first, second, third, fourth, fifth] baby.		
		MCQ (boolean)	If 'Other' - 4b.1.1a
		Live birth	
		Miscarriage (<20 weeks	If 'Live birth' – 4.1.1b
al- a	Could you please tell us the outcome of	gestation)	
4b.1	your pregnancy for your [first, second,	Elective abortion/termination of	If 'Miscarriage, Elective
	third, fourth, fifth] baby?	pregnancy	abortion/ termination of
		 Stillbirth (≥20 weeks gestation) 	pregnancy, Stillbirth,
		Ectopic pregnancy	Ectopic pregnancy' – END
		Other	LOOP
4b.1.1a	Please specify the outcome.	[smart text]	END LOOP
	rease speemy the outcome.	[Smart text]	2140 2001
4b.1.1b	What was the date of delivery?	Submission date	Go to 4b.1.1c
	what was the date of delivery:	(day/month/year)	G0 t0 4b.1.1c
4b.1.1c	How many weeks pregnant were you	Numerical field	
	when you gave birth?	(Number of, weeks)	
		MCQ (boolean)	
4b.2	What was the [first, second, third,	Male	
	fourth, fifth] baby's gender?	Female	
		Intersex	
4b.3		MCQ (boolean)	
40.5	What was the method of delivery?	Vaginal delivery	
		Caesarean section	
4b.4		MCQ (boolean)	
TN.T	Did you breastfeed the baby?	• Yes	If 'Yes' – 4b.4.1
		• No	
4b.4.1		MCQ (boolean)	
70.4.1	Are you currently breastfeeding?	• Yes	If 'No' – 4b.4.1.1
		• No	
4b.4.1.1	Until how many weeks did you	Numerical input	
	breastfeed the baby?	(Number of, weeks)	
	<u> </u>	i -	1

4b.4.2	Did your baby only receive breastmilk and no other liquids or solids, not even water during the first two weeks?	MCQ (boolean) • Yes • No	
4b.5	Were there any issues or complications with your pregnancy, delivery, or [first, second, third, fourth, fifth] baby?	MCQ (boolean) • Yes • No • Don't know	If 'Yes' – 4b.5.1
4b.5.1	Please specify the issues and/or complications.	[smart text] List builder	

Pre-screening questionnaire

#	Question text	Answer format	Answer options
1	Did you receive your first COVID-19 vaccination dose within the last 4 weeks?	MCQ (boolean)	YesNo
2	Was your first dose with COVID-19 Vaccine AstraZeneca?	MCQ (boolean)	YesNo
3	Were you at least 18 years old at the time of vaccination?	MCQ (boolean)	YesNo

Only participants who responded 'Yes' to all questions will be allowed to proceed.

Initial pregnancy status

#	Question text	Answer options	Logic
1.	Have you had your menstrual period in the last	MCQ (boolean)	If 'Yes' – 1.1
	year?	• Yes	If 'No' - END
		• No	
1.1	What was the date of the first day of your last	Submission date	
	menstrual period? Please approximate the date if	(day/month/year)	
	you cannot remember exactly.		
2.	Are you currently pregnant?	MCQ (boolean)	If 'Yes' – 2.1
		• Yes	
		• No	
		Don't know	
2.1	Do you know the expected due date?	MCQ (boolean)	If 'Yes' – 2.1.1
		• Yes	
		• No	
2.1.1	Please specify the date.	Submission date	
		(day/month/year)	
2.2	Are you pregnant with more than one baby?	MCQ (boolean)	If 'Yes' – 2.2.1
	, , ,	• Yes	
		• No	
		Don't know	
2.2.1	How many babies are you pregnant with?	Numerical field	
		(Number of, babies)	
2.3	Have you used any medical fertility procedure for	MCQ (boolean)	If 'Yes' - 2.3.1
	this pregnancy?	• Yes	
		• No	
2.3.1	Please select all that apply. If none apply, please	MCQ (multi-choice)	
	select 'None of the above'		
		Donor eggs, sperm or embryos	
		Fertility medications, such a	
		clomiphene or gonadotropicICSI (intracytoplasmic sperm	
		injection)	
		Intrauterine insemination (IUI) or	
		artificial insemination	
		IVF (in Vitro Fertilization)	
		None of the above	
2.3.2	Did you use any other medical fertility procedure	MCQ (boolean)	If 'Yes' – 2.3.2.1
	for this pregnancy that did you not already report	• Yes	
	above?	• No	
2.3.2.1	Please specify the medical fertility procedure.	[free text]	
2.4	Have you been pregnant before?	MCQ (boolean)	If 'Yes' - 2.4.1
		• Yes	
		• No	

		Don't know	
2.4.1	How many times have you been pregnant (not	Numerical field	
	including this current pregnancy)?	(Number of, pregnancies)	
2.4.2	How many past pregnancies have resulted in a live	Numerical field	
	birth?	(Number of, pregnancies)	
2.4.3	How many past pregnancies ended in a stillborn	Numerical field	
	baby (20 or more weeks gestation)?	(Number of, pregnancies)	
2.4.4	How many past pregnancies ended in ectopic or	Numerical field	
	tubal pregnancy?	(Number of, pregnancies)	
2.4.5	How many past pregnancies ended in miscarriage	Numerical field	
	or spontaneous abortion (less than 20 weeks	(Number of, pregnancies)	
	gestation)?	(various style sgramers)	
2.4.6	How many past pregnancies ended in elective	Numerical field	
	termination?	(Number of, pregnancies)	
2.5	Have you seen a medical professional about this	MCQ (boolean)	
	current pregnancy?	• Yes	
		• No	1501 1 2 5 1
2.6	Have you been told by a medical professional that	MCQ (boolean)	If 'Yes' – 2.6.1
	this pregnancy is high-risk (e.g. due to pre-	• Yes	
	eclampsia or gestational diabetes)?	• No	
2.6.1	Please specify the high-risk condition(s).	Don't know [smart text]	
2.0.1	rease specify the high risk condition(s).	List builder	
2.7		MCQ (boolean)	If 'Yes' – 2.7.1
	Is there a family history of birth defects or genetic		
	disorders?	• Yes	
	districts.	• No	
		Don't know	
2.7.1	Please specify which defect(s) or disorder(s).	[smart text]	
2.0	Have you walk many a convenient leave with a few	List builder	If 'Yes' – 2.8.1
2.8	Have you undergone any prenatal screening (e.g.	MCQ (boolean)	II Yes - 2.8.1
	ultrasound for fetal anomalies, blood test for cell- free DNA or the quad screen)?	• Yes	
	Thee DNA of the quad screen;	• No	
2.8.1	Please select all that apply. If none apply, please	MCQ (multi-choice)	
	select 'None of the above'		
		Ultrasound for fetal anomalies	
		Blood test for cell-free DNA	
		screening, alfa fetoprotein, or	
		the quad screenChorionic Villus Sampling (CVS)	
		Amniocentesis	
		None of the above	
2.8.2	Have you undergone any other prenatal screening	MCQ (boolean)	If 'Yes' – 2.8.2.1
	that you did not already report above?	• Yes	
		• No	

2.8.2.1	Please specify the prenatal screening.	[free text]	
2.8.3	Did the screening show any problem or concern?	MCQ (boolean) • Yes • No	If 'Yes' – 2.8.3.1
2.8.3.1	Please specify the problem or concern.	[free text]	

Pregnancy update

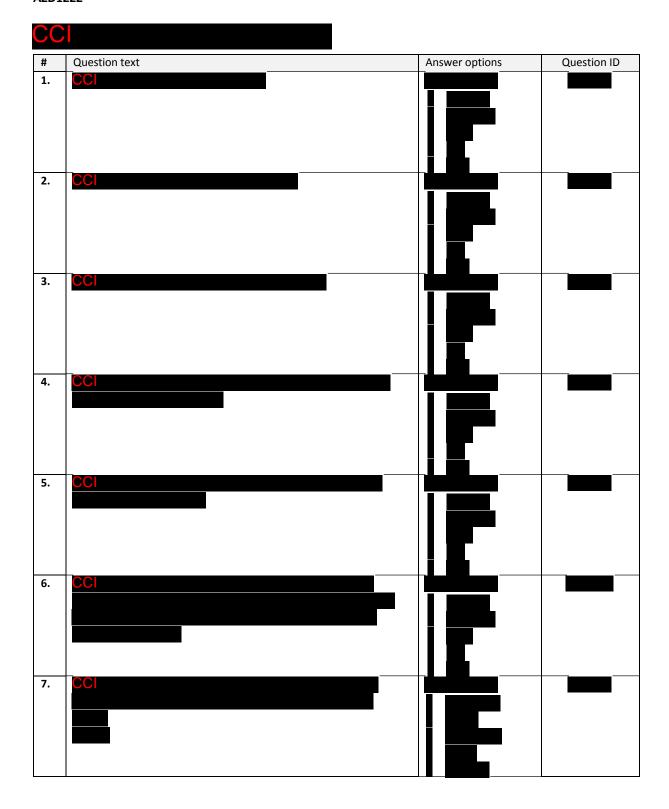
#	Question text	Answer options	Logic
Info	If you have previously reported	·	
	your pregnancy to us, please exit		
	the questionnaire and complete		
	the 'We need some more		
	information from you' task first.		
1.	Have you had your menstrual	MCQ (boolean)	If 'Yes' – 1.1
	period in the last year?	• Yes	If 'No' - END
	,	• No	
1.1	What was the date of the first day	Submission date	
	of your last menstrual	(day/month/year)	
	period? Please approximate the		
	date if you cannot remember		
	exactly.		
2.	Have you become pregnant since	MCQ (boolean)	If 'Yes' – 2.1
	we last asked you about your	• Yes	If 'No' - END
	pregnancy status?	• No	
2.1	Are you currently pregnant?	MCQ (boolean)	If 'Yes' – 2.2a.1
		• Yes	If 'No' – 2.2b.1
		• No	
2.2a.1	Do you know the expected due	MCQ (boolean)	If 'Yes' – 2.2a.1.1
	date?	• Yes	
		• No	
2.2a.1.1	Please specify the date.	Submission date	
		(day/month/year)	
2.2a.2	Are you pregnant with more than	MCQ (boolean)	If 'Yes' - 2.2a.2.1
	one baby?	• Yes	
		• No	
		Don't know	
2.2a.2.1	How many babies are you pregnant	Numerical input	
	with?	(Number of, babies)	
2.2b.1	Were you pregnant with more than	MCQ (boolean)	If 'Yes' – 2.2b.1.1
	one baby?	• Yes	
		• No	
		Don't know	
2.2b.1.1	How many babies were you	Numerical input	
	pregnant with?	(Number of, babies)	
2.2b.2	What was the result of the	MCQ (multi-choice)	
	pregnancy? Select all that apply.	Live birth	
		 Miscarriage (<20 weeks gestation) 	
		Elective abortion/termination of	
		pregnancy	
		Stillbirth (≥20 weeks gestation) Estable or tubal programs:	
		Ectopic or tubal pregnancyNone of the above	
		▼ INOTIE OF LITE ADOVE	

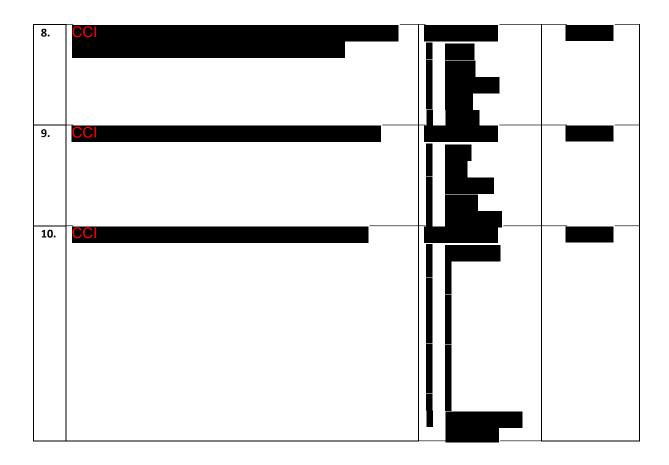
2.2b.3	Did the pregnancy result in any	MCQ (boolean)	If 'Yes' – 2.2b.3.1
	other outcome not already	• Yes	
	reported above?	• No	
2.2b.3.1	Please specify the other result(s) of	[smart text]	
	your pregnancy.	List builder	
2.2b.4	How many weeks pregnant were	Numerical input	
	you?	(Number of, weeks)	
2.3	Have you been pregnant before?	MCQ (boolean)	If 'Yes' - 2.3.1
		• Yes	
		• No	
		Don't know	
2.3.1	How many times have you been	Numerical field	
	pregnant (not including this current pregnancy)?	(Number of, pregnancies)	
2.3.2	How many past pregnancies have	Numerical field	
	resulted in a live birth?	(Number of, pregnancies)	
2.3.3	How many past pregnancies ended	Numerical field	
2.3.3	in a stillborn baby (20 or more	(Number of, pregnancies)	
	weeks gestation)	(Number of, pregnancies)	
	weeks gestation)		
2.3.4	How many past pregnancies ended	Numerical field	
	in an ectopic or tubal pregnancy?	(Number of, pregnancies)	
2.3.5	How many past pregnancies ended	Numerical field	
	in miscarriage or spontaneous	(Number of, pregnancies)	
	abortion (less than 20 weeks		
	gestation)		
2.3.6	How many past pregnancies ended	Numerical field	
	in elective termination?	(Number of, pregnancies)	
2.4	Have you seen a medical	MCQ (boolean)	
	professional about this	Yes	
	current/recent pregnancy?	• No	
2.5	Have you been told by a medical	MCQ (boolean)	
	professional that this pregnancy	• Yes	
	is/was high-risk (e.g. due to pre-	• No	
	eclampsia or gestational diabetes)?	Don't know	
2.5.1	Please specify the high-risk	[smart text]	
	condition(s).	List builder	
2.6	Is there a family history of birth	MCQ (boolean)	If 'Yes' – 2.6.1
2.0	defects or genetic disorders?		11 165 - 2.0.1
	defects of genetic disorders:	• Yes	
		No Don't know	
		Don't know	

2.6.1	Please specify which defect(s) or	[smart text]	
	disorder(s).	List builder	
2.7	Have you undergone any prenatal screening (e.g. ultrasound for fetal anomalies, blood test for cell-free DNA or the quad screen)?	MCQ (boolean) • Yes • No	If 'Yes' – 2.7.1
2.7.1	Please select all that apply. If none apply, please select 'None of the above'.	 MCQ (multi-choice) Ultrasound for fetal anomalies Blood test for cell-free DNA screening, alfa fetoprotein, or the quad screen Chorionic Villus Sampling (CVS) Amniocentesis None of the above 	
2.7.2	Have you undergone any other prenatal screening that you did not already report above?	MCQ (boolean) • Yes • No	If 'Yes' – 2.7.2.1
2.7.2.1	Please specify the prenatal screening.	[free text]	
2.7.3	Did the screening show any problem or concern?	MCQ (boolean) • Yes • No	If 'Yes' – 2.7.3.1
2.7.3.1	Please specify the problem or concern.	[free text]	

Profile questionnaire

#	Question text	Answer options	Notes
1	Do you have an alternate contact number?	Phone number field	Optional Field: Secondary contact number
2	Please enter the name of your primary family physician. If you do not have one, enter the healthcare professional, clinic, or medical center that you are in regular contact with most.	Text field	Mandatory <u>Field</u> : Family physician name
3	Could you please provide their phone number?	Phone number field	Mandatory <u>Field</u> : Family physician number
4	Please provide an emergency contact.	Text field	Mandatory <u>Field</u> : Emergency contact name
5	What is your emergency contact's phone number?	Phone number field	Mandatory <u>Field</u> : Emergency contact number





First vaccination details

#	Question text	Answer options	Logic
Info	If you have a vaccination card, please ensure to have it available as we will ask for a photo.		
1.	Where were you vaccinated?	MCQ (boolean) Primary healthcare provider Other doctor office or clinic Hospital Pharmacy or drugstore At work Public health clinic or veteran's administration facility School or student health clinic Military base Mobile vaccination unit Other mass vaccination center (i.e. not in above locations) Airport Other	If 'Other' – 1.1 If ANY but 'Other' – 1.2
1.1	Please specify where.	[free text] (Vaccination location)	
1.2	Please specify the city/town.	[free text] (City/town)	
2.	Could you please provide the batch number of the vaccine you received? This number, also called the lot number, should be written on your vaccine card/record or may have been provided to you by your vaccination site in digital format. If you have lost your vaccination card, enter '99'. Otherwise, please enter the number as best as you can even if it is difficult to read. [Hyperlink to example vaccination card]	Text field (Enter batch number)	Validate against backend list. If no match, flag to the portal for manual checking and prompt the user with this error: "Invalid batch number. Please check your entry again. If the issue persists, continue to the next question. Your study team might contact you directly to validate your batch number."
3.	Have you been scheduled to receive the second dose of the vaccine?	MCQ (boolean) • Yes • No • Don't know	If 'Yes' – 3.1

	T		T
3.1	Please provide the scheduled date.	Submission date (day/month/year)	
4.	Were you vaccinated against the seasonal flu vaccine within 4 weeks of the COVID-19 vaccination?	MCQ (boolean) • Yes • No	If 'Yes' – 4.1
4.1	When were you vaccinated against the seasonal flu?	Submission date (day/month/year)	
5.	Did you receive any other vaccination within 4 weeks of the COVID-19 vaccination?	MCQ (boolean) • Yes • No	If 'Yes' – 5.1
5.1	Please specify which vaccine.	 MCQ (multi-choice) DTPa, Diptheria, Tetanus, Pertussis or Polio (e.g. Boostrix, Repevax, Revaxis, Imovax) Hepatitis A or B (e.g. Vaqta, Havrix, Twinrix, Avaxim, Engerix) HPV (e.g. Gardasil or Cervarix) Meningitis (e.g. Bexsero, Menjugate 10, Neisvac, Menveo, Nimenrix) Pneumococcus (e.g. Prevenar13, Pneumovax23) Shingles (e.g. Shingrix) Other 	
5.1.1	Enter any vaccination you received within 4 weeks of the COVID-19 vaccination. If you don't remember the name of the vaccination, enter 'Other' below.	[smart text] List builder	For each vaccine, loop 5.2
5.2	When were you vaccinated with the <vaccine name="">?</vaccine>	Submission date (day/month/year)	
6.	Have you had any allergic reaction to any vaccine in the past?	MCQ (boolean) • Yes • No • Don't know	If 'Yes' – 6.1
6.1	Please specify which vaccine.	[smart text] List builder	
6.2	What kind of allergic reaction?	[smart text] List builder	
Info	After you have submitted this questionnaire, please remember to securely upload a photo of your vaccination card/record in your Profile under the Personal Documents section.		

Personalise your tasks

This is presented <u>once</u> at enrolment.

#	Question text	Answer options	Notes
1.	When did you receive your first dose of the AstraZeneca COVID-19 vaccine?	Submission date (day/month/year)	Stored in participant profile and anchor date for participant timeline Field: First vaccination date
2.	Which of the following groups is most applicable to you?	 MCQ (boolean) I'm pregnant I'm breastfeeding I'm pregnant and breastfeeding I'm biologically female < 50 years old and not pregnant / breastfeeding I'm biologically male / I'm biologically female ≥ 50 years old 	Treat visconductor date

This is presented to <u>women able to conceive (whether currently breastfeeding or not)</u> every time the pregnancy update module is presented.

#	Question text	Answer options	Notes
Info	We use this task is to personalise your future tasks. If you are currently pregnant, please complete the "Any update to your pregnancy status?" task before proceeding.		
1.	Which of the following groups is most applicable to you?	MCQ (boolean) I'm pregnant I'm not pregnant / don't know	

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Document Name: d8111r00003-pass-clinical-study-protocol			
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Version Label:	1.0 CURRENT LATEST APPROVED		
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Notes: (1) Document details as stored in ANGEL, an AstraZeneca document management system.