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This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions. See section 4.8 for how to report adverse reactions.

#### 1. NAME OF THE MEDICINAL PRODUCT

Vaxzevria suspension for injection COVID-19 Vaccine (ChAdOx1-S [recombinant])

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

This is a multidose vial which contains 10 doses of 0.5 ml (see section 6.5).

One dose (0.5 ml) contains:

Chimpanzee Adenovirus encoding the SARS-CoV-2 Spike glycoprotein (ChAdOx1-S)\*, not less than  $2.5 \times 10^8$  infectious units (Inf.U)

\*Produced in genetically modified human embryonic kidney (HEK) 293 cells and by recombinant DNA technology.

This product contains genetically modified organisms (GMOs)

## Excipient with known effect

Each dose (0.5 ml) contains approximately 2 mg of ethanol

For the full list of excipients, see section 6.1.

#### 3. PHARMACEUTICAL FORM

Suspension for injection (injection).

The suspension is colourless to slightly brown, clear to slightly opaque with a pH of 6.6.

## 4. CLINICAL PARTICULARS

## 4.1 Therapeutic indications

Vaxzevria is indicated for active immunisation to prevent COVID-19 caused by SARS-CoV-2, in individuals 18 years of age and older.

The use of this vaccine should be in accordance with official recommendations.

## 4.2 Posology and method of administration

#### **Posology**

*Individuals 18 years of age and older* 

The Vaxzevria primary vaccination course consists of two separate doses of 0.5 ml each. The second dose should be administered between 4 and 12 weeks (28 to 84 days) after the first dose (see section 5.1).

A booster dose (third dose) of 0.5 ml may be given to individuals who completed the primary vaccination course with Vaxzevria or an mRNA COVID-19 vaccine (see sections 4.8 and 5.1). The third dose should be administered at least 3 months after completing the primary vaccination course.

## Elderly population

No dose adjustment is required. See also section 5.1.

## Paediatric population

The safety and efficacy of Vaxzevria in children and adolescents (less than 18 years of age) have not yet been established. No data are available.

#### Method of administration

Vaxzevria is for intramuscular injection only, preferably in the deltoid muscle of the upper arm.

Do not inject the vaccine intravascularly, subcutaneously or intradermally.

The vaccine should not be mixed in the same syringe with any other vaccines or medicinal products.

For precautions to be taken before administering the vaccine, see section 4.4.

For instructions on handling and disposal, see section 6.6.

#### 4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

Individuals who have experienced thrombosis with thrombocytopenia syndrome (TTS) following vaccination with Vaxzevria (see section 4.4).

Individuals who have previously experienced episodes of capillary leak syndrome (see also section 4.4).

## 4.4 Special warnings and precautions for use

#### Traceability

In order to improve the traceability of biological medicinal products, the name and the batch number of the administered product should be clearly recorded.

## Hypersensitivity and anaphylaxis

Events of anaphylaxis have been reported. Appropriate medical treatment and supervision should always be readily available in case of an anaphylactic event following the administration of the vaccine. Close observation for at least 15 minutes is recommended following vaccination. An additional dose of the vaccine should not be given to those who have experienced anaphylaxis to a previous dose of Vaxzevria.

#### **Anxiety-related reactions**

Anxiety-related reactions, including vasovagal reactions (syncope), hyperventilation or stress-related reactions may occur in association with vaccination as a psychogenic response to the needle injection. It is important that precautions are in place to avoid injury from fainting.

## Concurrent illness

Vaccination should be postponed in individuals suffering from an acute severe febrile illness or acute infection. However, the presence of a minor infection and/or low-grade fever should not delay vaccination.

## Coagulation disorders

- Thrombosis with thrombocytopenia syndrome: Thrombosis with thrombocytopenia syndrome (TTS), in some cases accompanied by bleeding, has been observed very rarely following vaccination with Vaxzevria. This includes severe cases presenting as venous thrombosis, including unusual sites such as cerebral venous sinus thrombosis, splanchnic vein thrombosis, as well as arterial thrombosis, concomitant with thrombocytopenia. Some cases had a fatal outcome. The majority of these cases occurred within the first three weeks following vaccination. The reporting rates after the second dose are lower compared to after the first dose. See also section 4.3. TTS requires specialised clinical management. Healthcare professionals should consult applicable guidance and/or consult specialists (e.g., haematologists, specialists in coagulation) to diagnose and treat this condition.
- Cerebrovascular venous and sinus thrombosis: Events of cerebrovascular venous and sinus thrombosis without thrombocytopenia have been observed very rarely following vaccination with Vaxzevria. Some cases had a fatal outcome. The majority of these cases occurred within the first four weeks following vaccination. This information should be considered for individuals at increased risk for cerebrovascular venous and sinus thrombosis. These events may require different treatment approaches than TTS and healthcare professionals should consult applicable guidance.
- *Venous thromboembolism:* Venous thromboembolism (VTE) has been observed following vaccination with Vaxzevria and should be considered for individuals at increased risk of VTE.
- Thrombocytopenia: Cases of thrombocytopenia, including immune thrombocytopenia (ITP), have been reported after receiving Vaxzevria, typically within the first four weeks after vaccination. Very rarely, these presented with very low platelet levels (<20,000 per µl) and/or were associated with bleeding. Some of these cases occurred in individuals with a history of immune thrombocytopenia. Cases with fatal outcome have been reported. If an individual has a history of a thrombocytopenic disorder, such as immune thrombocytopenia, the risk of developing low platelet levels should be considered before administering the vaccine and platelet monitoring is recommended after vaccination.

Healthcare professionals should be alert to the signs and symptoms of thromboembolism and/or thrombocytopenia. Those vaccinated should be instructed to seek immediate medical attention if they develop symptoms such as shortness of breath, chest pain, leg swelling, leg pain, persistent abdominal pain following vaccination. Additionally, anyone with neurological symptoms including severe or persistent headaches, blurred vision, confusion or seizures after vaccination, or who experiences spontaneous bleeding, skin bruising (petechia) beyond the site of vaccination after a few days, should seek prompt medical attention.

Individuals diagnosed with thrombocytopenia within three weeks after vaccination with Vaxzevria, should be actively investigated for signs of thrombosis. Similarly, individuals who present with thrombosis within three weeks of vaccination should be evaluated for thrombocytopenia.

Risk of bleeding with intramuscular administration

As with other intramuscular injections, the vaccine should be given with caution in individuals receiving anticoagulant therapy or those with thrombocytopenia or any coagulation disorder (such as haemophilia) because bleeding or bruising may occur following an intramuscular administration in these individuals.

## Capillary leak syndrome

Very rare cases of capillary leak syndrome (CLS) have been reported in the first days after vaccination with Vaxzevria. A history of CLS was apparent in some of the cases. Fatal outcome has been reported. CLS is a rare disorder characterised by acute episodes of oedema mainly affecting the limbs, hypotension, haemoconcentration and hypoalbuminaemia. Patients with an acute episode of CLS following vaccination require prompt recognition and treatment. Intensive supportive therapy is usually warranted. Individuals with a known history of CLS should not be vaccinated with this vaccine. See also section 4.3.

## Neurological events

Guillain-Barré syndrome (GBS) and transverse myelitis (TM) have been reported very rarely following vaccination with Vaxzevria. Healthcare professionals should be alert of GBS and TM signs and symptoms to ensure correct diagnosis, in order to initiate adequate supportive care and treatment, and to rule out other causes.

# Risk of severe adverse events after a booster dose

The risk of severe adverse events (such as coagulation disorders including thrombosis with thrombocytopenia syndrome, VTE, CLS, GBS and TM) after a booster dose of Vaxzevria has not yet been characterised.

#### Immunocompromised individuals

The efficacy, safety and immunogenicity of the vaccine have not been assessed in immunocompromised individuals, including those receiving immunosuppressant therapy. The efficacy of Vaxzevria may be lower in immunosuppressed individuals.

#### Duration of protection

The duration of protection afforded by the vaccine is unknown as it is still being determined by ongoing clinical studies.

## Limitations of vaccine effectiveness

Protection starts from approximately 3 weeks after the first dose of Vaxzevria. Individuals may not be fully protected until 15 days after the second dose is administered. As with all vaccines, vaccination with Vaxzevria may not protect all vaccine recipients (see section 5.1).

#### Excipients

#### Sodium

This medicinal product contains less than 1 mmol sodium (23 mg) per 0.5 ml dose, that is to say essentially "sodium-free".

#### Ethanol

This medicinal product contains 2 mg of alcohol (ethanol) per 0.5 ml dose. The small amount of alcohol in this medicinal product will not have any noticeable effects.

## 4.5 Interaction with other medicinal products and other forms of interaction

No interaction studies have been performed.

Concomitant administration of Vaxzevria with other vaccines has not been studied.

## 4.6 Fertility, pregnancy and lactation

## Pregnancy

There is limited experience with use of Vaxzevria in pregnant women.

Animal studies do not indicate direct or indirect harmful effects with respect to pregnancy, embryo/foetal development, parturition or post-natal development (see section 5.3).

Administration of Vaxzevria during pregnancy should only be considered when the potential benefits outweigh any potential risks for the mother and foetus.

## **Breastfeeding**

It is unknown whether Vaxzevria is excreted in human milk.

In animal studies, lactational transfer of anti-SARS-CoV-2 S antibodies from maternal female mice to pups was observed (see section 5.3).

## **Fertility**

Animal studies do not indicate direct or indirect harmful effects with respect to fertility (see section 5.3).

## 4.7 Effects on ability to drive and use machines

Vaxzevria has no or negligible influence on the ability to drive and use machines. However, some of the adverse reactions mentioned under section 4.8 may temporarily affect the ability to drive or use machines.

## 4.8 Undesirable effects

## Summary of the safety profile

#### Primary vaccination course

The overall safety of Vaxzevria is based on an analysis of pooled data from four clinical studies phase I/II, II/III and III conducted in the United Kingdom, Brazil, and South Africa, and of data from an additional phase III clinical study conducted in the United States, Peru and Chile. At the time of the analysis, a total of 56,601 participants ≥18 years old had been randomised and of these, 33,846 received at least one dose of Vaxzevria and 32,030 received two doses.

Participants continued to be followed for safety regardless of unblinding or receipt of unblinded vaccination. For the four clinical studies performed in the United Kingdom, Brazil, and South Africa, longer follow-up of ≥12 months (median 13.0 months) from first dose is available for 10,247 participants who received Vaxzevria.

The most frequently reported adverse reactions are injection site tenderness (68%), injection site pain (58%), headache (53%), fatigue (53%), myalgia (44%), malaise (44%), pyrexia (includes feverishness [33%] and fever  $\geq$ 38°C [8%]), chills (32%), arthralgia (27%) and nausea (22%). The majority of these

adverse reactions were mild to moderate in severity and usually resolved within a few days of vaccination.

Very rare cases of thrombosis with thrombocytopenia syndrome have been reported post-marketing within the first three weeks following vaccination (see section 4.4).

Following vaccination with Vaxzevria, recipients may experience multiple adverse reactions occurring at the same time (for example, myalgia/arthralgia, headache, chills, pyrexia and malaise).

When compared with the first dose, adverse reactions reported after the second dose were milder and less frequent.

Reactogenicity was generally milder and reported less frequently in the population of older adults ( $\geq$ 65 years old).

The safety profile was consistent across participants with or without prior evidence of SARS-CoV-2 infection at baseline.

#### Booster dose (third dose)

The safety profile observed in individuals who received a booster dose (third dose) was consistent with the known safety profile of Vaxzevria. No new safety concerns, as compared with adverse reactions reported for the primary vaccination course with Vaxzevria, have been identified in individuals receiving a booster dose of Vaxzevria.

Booster dose (third dose) following primary vaccination with Vaxzevria

In study D7220C00001, 373 participants who had previously received a 2-dose primary vaccination course with Vaxzevria received a single booster dose (third dose) of Vaxzevria. Median time between the second dose and the booster dose was 8.8 months (269 days).

The most frequently reported adverse reactions in previously Vaxzevria vaccinated participants were injection site tenderness (54%), fatigue (42%), injection site pain (38%), headache (34%), myalgia (24%), and malaise (22%). The majority of these adverse reactions were mild to moderate in severity and usually resolved within a few days of vaccination.

Booster dose (third dose) following primary vaccination with an mRNA COVID-19 vaccine

In study D7220C00001, 322 participants who had previously received a 2-dose primary vaccination course with an mRNA COVID-19 vaccine received a single booster dose (third dose) of Vaxzevria. Median time between the second dose and the booster dose was 4.0 months (120 days).

The most frequently reported adverse reactions in previously mRNA vaccinated participants were injection site tenderness (71%), fatigue (57%), headache (52%), injection site pain (50%), myalgia (47%), malaise (42%), chills (29%), and nausea (22%). The majority of these adverse reactions were mild to moderate in severity and usually resolved within a few days of vaccination.

# Tabulated list of adverse reactions

The safety profile presented below is based on an analysis of data from five clinical studies which included participants ≥18 years old (pooled data from four clinical studies conducted in the United Kingdom, Brazil and South Africa, and data from one clinical study conducted in the United States, Peru and Chile) and on data from post-authorisation experience.

Adverse drug reactions (ADRs) are organised by MedDRA System Organ Class (SOC). Frequencies of occurrence of adverse reactions are defined as: very common ( $\geq 1/10$ ); common ( $\geq 1/100$  to < 1/10);

uncommon ( $\geq 1/1,000$  to < 1/100); rare ( $\geq 1/10,000$  to < 1/1000); very rare (< 1/10,000) and not known (cannot be estimated from available data); within each SOC, preferred terms are arranged by decreasing frequency and then by decreasing seriousness.

Table 1. Adverse drug reactions

MedDRA SOC	Frequency	Adverse Reactions	
Blood and lymphatic system disorders	Common	Thrombocytopenia <sup>a</sup>	
	Uncommon	Lymphadenopathy	
	Not known	Immune thrombocytopenia	
Immune system disorders	Not known	Anaphylaxis	
		Hypersensitivity	
Metabolism and nutrition disorders	Uncommon	Decreased appetite	
Nervous system disorders	Very common	Headache <sup>c</sup>	
	Common	Dizziness	
	Uncommon	Somnolence	
		Lethargy	
		Paraesthesia	
		Hypoaesthesia	
	Rare	Facial paralysis <sup>d</sup>	
	Very rare	Guillain-Barré syndrome	
	Not known	Transverse myelitis	
Ear and labyrinth disorders	Uncommon	Tinnitus	
Vascular disorders	Very rare	Thrombosis with thrombocytopenia	
	-0'	syndrome <sup>e</sup>	
	Not known	Capillary leak syndrome	
	•	Cerebrovascular venous and sinus	
		thrombosis <sup>b</sup>	
		Venous thromboembolism <sup>b</sup>	
Gastrointestinal disorders	Very common	Nausea	
	Common	Vomiting	
	)	Diarrhoea	
	T.T.	Abdominal pain	
Skin and subcutaneous tissue disorders	Uncommon	Hyperhidrosis	
0		Pruritus	
<b>O</b>		Rash Urticaria	
	Not known	Angioedema	
·O`	NOT KHOWH	Cutaneous vasculitis	
Musculoskeletal and connective tissue	Very common	Myalgia Myalgia	
disorders	Very common	Arthralgia	
disorders	Common	Pain in extremity	
	Uncommon	Muscle spasms	
General disorders and administration	Very common	Injection site tenderness, pain,	
site conditions	Very common	warmth, pruritus, bruising <sup>f</sup>	
Site conditions		Fatigue	
		Malaise	
. 7)		Feverishness, fever	
		Chills	
7	Common	Injection site swelling, erythema	
		Influenza-like illness	
		Asthenia	

<sup>&</sup>lt;sup>a</sup> In clinical studies, transient mild thrombocytopenia was commonly reported (see section 4.4).

<sup>&</sup>lt;sup>b</sup> Cases have been reported post-marketing (see also section 4.4).

<sup>&</sup>lt;sup>c</sup> Headache includes migraine (uncommon).

<sup>&</sup>lt;sup>d</sup> Based on data from the clinical study conducted in the United States, Peru and Chile. Through the safety follow-up period to 05 March 2021, facial paralysis (or palsy) was reported by five participants in the Vaxzevria group.

Onset was 8 and 15 days after first dose and 4, 17, and 25 days after the second dose. All events were reported to be non-serious. No cases of facial paralysis were reported in the placebo group.

## Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V and include batch/Lot number if available.

#### 4.9 Overdose

There is no specific treatment for an overdose with Vaxzevria. In the event of an overdose, the individual should be monitored and provided with symptomatic treatment as appropriate.

#### 5. PHARMACOLOGICAL PROPERTIES

## 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Vaccines, Covid-19 vaccines, ATC code: J07BN02

## Mechanism of action

Vaxzevria is a monovalent vaccine composed of a single recombinant, replication-deficient chimpanzee adenovirus (ChAdOx1) vector encoding the S glycoprotein of SARS-CoV-2. The SARS-CoV-2 S immunogen in the vaccine is expressed in the trimeric pre-fusion conformation; the coding sequence has not been modified in order to stabilise the expressed S-protein in the pre-fusion conformation. Following administration, the S glycoprotein of SARS-CoV-2 is expressed locally stimulating neutralising antibody and cellular immune responses, which may contribute to protection to COVID-19.

## Clinical efficacy

#### Analysis of data from Study D8110C00001

The clinical efficacy of Vaxzevria has been evaluated based on an analysis of Study D8110C00001: a randomised, double-blinded, placebo-controlled phase III study conducted in the United States, Peru and Chile. The study excluded participants with severe and/or uncontrolled cardiovascular, gastrointestinal, liver, renal, endocrine/metabolic disease, and neurological illnesses; as well as those with severe immunosuppression, pregnant women and participants with a known history of SARS-CoV-2 infection. All participants are planned to be followed for up to 12 months, for assessments of efficacy against COVID-19 disease.

Participants  $\geq 18$  years of age received two doses  $(5 \times 10^{10} \, \text{viral particles per dose corresponding to not less than } 2.5 \times 10^8 \, \text{infectious units})$  of Vaxzevria (N=17,662) or saline placebo (N=8,550), administered via IM injection on Day 1 and Day 29 (-3 to +7 days). The median dose interval was 29 days and the majority of participants (95.7% and 95.3% for Vaxzevria and placebo, respectively) received the second dose  $\geq 26$  to  $\leq 36$  days after dose 1.

Baseline demographics were well balanced across the Vaxzevria and placebo groups. Of the participants who received Vaxzevria, 79.1% were aged 18 to 64 years (with 20.9% aged 65 or older) and 43.8% of subjects were female. Of those randomised, 79.3% were White, 7.9% were Black, 4.2% were Asian, 4.2% were American Indian or Alaska Native. A total of 10,376 (58.8%) participants had

<sup>&</sup>lt;sup>e</sup> Severe and very rare cases of thrombosis with thrombocytopenia syndrome have been reported post-marketing. These included venous thrombosis such as cerebral venous sinus thrombosis, splanchnic vein thrombosis, as well as arterial thrombosis (see section 4.4).

f Injection site bruising includes injection site haematoma (uncommon).

at least one pre-existing comorbidity, defined as: chronic kidney disease, chronic obstructive pulmonary disease, lower immune health because of a solid organ transplant, history of obesity (BMI >30), serious heart conditions, sickle cell disease, type 1 or 2 diabetes, asthma, dementia, cerebrovascular diseases, cystic fibrosis, high blood pressure, liver disease, pulmonary fibrosis, thalassemia or history of smoking. At the time of analysis the median follow-up time post-dose 2 was 61 days.

Final determination of COVID-19 cases were made by an adjudication committee. Overall vaccine efficacy and efficacy by key age groups are presented in Table 2.

Table 2. Vaxzevria efficacy against symptomatic COVID-19 illness in Study D8110C00001

	Vaxzevria			Placebo			
	N	Number of COVID- 19 cases <sup>a</sup> , n (%)	Incidence rate of COVID-19 per 1,000 person-years	N	Number of COVID- 19 cases <sup>a</sup> , n (%)	Incidence rate of COVID-19 per 1,000 person-years	Vaccine efficacy % (95% CI) <sup>b</sup>
Overall (age ≥18 years old)	17,662	73 (0.4)	35.69	8,550	130 (1.5)	137.23	74.0 (65.3, 80.5)
Age 18 to 64 years old	13,966	68 (0.5)	40.47	6,738	116 (1.7)	148.99	72.8 (63.4, 79.9)
Age ≥65 years old	3,696	5 (0.1)	13.69	1,812	14 (0.8)	82.98	83.5 (54.2, 94.1)

N = Number of subjects included in each group; n Number of subjects having a confirmed event; CI = Confidence Interval.

Severe or critical symptomatic COVID-19 illness was assessed as a key secondary endpoint. Among all subjects in the per protocol set, no cases of severe or critical symptomatic COVID-19 were reported in the vaccine group compared with 8 cases reported in the placebo group. There were 9 hospitalised cases, the 8 cases that were adjudicated as severe or critical symptomatic COVID-19, and one additional case in the vaccine group. The majority of the severe or critical symptomatic COVID-19 cases fulfilled only the oxygen saturation (SpO2) criterion for severe disease (≤93% on room air).

In individuals with or without prior evidence of SARS-CoV-2 infection, the vaccine efficacy of Vaxzevria (≥15 days post-dose 2) was 73.7% (95% CI: 63.1; 80.1); 76 (0.4%) vs 135 (1.5%) cases of COVID-19 for Vaxzevria (N=18,563) and placebo (N=9,031), respectively.

Participants with one or more comorbidities who received Vaxzevria (≥15 days post-dose 2) had an efficacy of 75.2% (95% CI: 64.2; 82.9) and participants without comorbidities had a vaccine efficacy of 71.8% (95% CI: 55.5, 82.1).

In the 6-month follow-up analysis, updated efficacy analyses were performed with additional confirmed COVID-19 cases accrued during blinded placebo-controlled follow-up, with a median follow-up of 78 days in participants who received Vaxzevria and 71 days in participants who received placebo. Overall vaccine efficacy against symptomatic COVID-19 illness was 67.0% (95% CI: 58.9, 73.5) with 141 (0.8%) cases of COVID-19 reported in participants who had received two doses of Vaxzevria (N=17,617) and 184 (2.2%) cases reported in participants who had received placebo (N=8,528). In participants aged 18 to 64 years there were 135 (1.0%) cases in the Vaxzevria group

<sup>&</sup>lt;sup>a</sup> Symptomatic COVID-19 requiring positive Reverse Transcriptase-Polymerase Chain Reaction (RT-PCR) and at least 1 respiratory sign or symptom, or at least 2 other systemic signs or symptoms, as defined in the protocol. <sup>b</sup> The confidence intervals were not adjusted for multiplicity.

(N=13,921) versus 165 (2.5%) cases in the placebo group (N=6,712), corresponding to a vaccine efficacy of 64.8% (95% CI: 55.7, 71.9). In participants  $\geq$ 65 years old vaccine efficacy was 86.3% (95% CI: 65.8, 94.6) with 6 (0.2%) cases in the Vaxzevria group (N=3,696) versus 19 (1.1%) cases in the placebo group (N=1,816).

## Analysis of pooled data from COV002 and COV003

The clinical efficacy of Vaxzevria has been evaluated based on an analysis of pooled data from two randomised, blinded, controlled studies: a phase II/III study, COV002, in adults ≥18 years of age (including the elderly) in the UK; and a phase III study, COV003, in adults ≥18 years of age (including the elderly) in Brazil. The studies excluded participants with severe and/or uncontrolled cardiovascular, gastrointestinal, liver, renal, endocrine/metabolic disease, and neurological illnesses; as well as those with severe immunosuppression, pregnant women and participants with a known history of SARS-CoV-2 infection. Influenza vaccines could be administered 7 days before or after any dose of Vaxzevria.

In the pooled primary analysis for efficacy, participants  $\ge 18$  years of age received two doses  $(5 \times 10^{10} \text{ viral particles per dose corresponding to not less than } 2.5 \times 10^{8} \text{ infectious units})$  of Vaxzevria (N=6,106) or control (meningococcal vaccine or saline) (N=6,090), administered via IM injection.

Because of logistical constraints, the interval between dose 1 and dose 2 ranged from 3 to 23 weeks (21 to 159 days), with 86.1% of participants receiving their two doses within the interval of 4 to 12 weeks (28 to 84 days).

Baseline demographics were well balanced across Vaxzevria and control treatment groups. In the pooled primary analysis, among the participants who received Vaxzevria with a dose interval of between 4 and 12 weeks, 87.0% of participants were 18 to 64 years old (with 13.0% aged 65 or older and 2.8% aged 75 or older); 55.1% of subjects were female; 76.2% were White, 6.4% were Black and 3.4% were Asian. A total of 2,068 (39.3%) participants had at least one pre-existing comorbidity (defined as a BMI  $\geq 30$  kg/m², cardiovascular disorder, respiratory disease or diabetes). At the time of analysis, the median follow-up time post-dose 2 was 78 days.

Final determination of COVID-19 cases were made by an adjudication committee, who also assigned disease severity according to the WHO clinical progression scale. A total of 218 participants had SARS-CoV-2 virologically confirmed COVID-19 occurring ≥15 days post second dose with at least one COVID-19 symptom (objective fever (defined as ≥37.8°C), cough, shortness of breath, anosmia, or ageusia) and were without evidence of previous SARS-CoV-2 infection. Vaxzevria significantly decreased the incidence of COVID-19 compared to control (see Table 3).

Table 3. Vaxzevria efficacy against COVID-19 from COV002 and COV003<sup>a</sup>

<u> </u>	Vaxzevria		Control		Vaccine	
Population	N	Number of COVID-19 cases, n (%)	N	Number of COVID-19 cases, n (%)	efficacy % (95% CI) <sup>b</sup>	
Licensing regimen						
4 – 12 weeks (28 to 84 days)	5,258	64 (1.2)	5,210	154 (3.0)	59.5 (45.8, 69.7)	

N = Number of subjects included in each group; n = Number of subjects having a confirmed event; CI = Confidence Interval.

Vaccine efficacy was 62.6% (95% CI: 50.9; 71.5) in participants receiving two recommended doses with any dose interval (ranging from 3 to 23 weeks), in a pre-specified analysis.

<sup>&</sup>lt;sup>a</sup> Efficacy endpoint was based on confirmed COVID-19 cases in subjects aged 18 years and over who were seronegative at baseline, who had received two doses and were on-study ≥15 days post second dose. <sup>b</sup> CI not adjusted for multiplicity.

Regarding COVID-19 hospitalisation (WHO Severity grading  $\geq$ 4) there were 0 (0.0%; N=5,258) cases of COVID-19 hospitalisation in participants who received two doses of Vaxzevria ( $\geq$ 15 days post-dose 2) as compared to 8 (0.2%; N=5,210) for control, including one severe case (WHO Severity grading  $\geq$ 6), reported for control. In all participants who received at least one dose, as from 22 days post-dose 1, there were 0 (0.0%, N=8,032) cases of COVID-19 hospitalisation in participants who received Vaxzevria, as compared to 14 (0.2%, N=8,026), including one fatality, reported for control.

Participants who had one or more comorbidities had a vaccine efficacy of 58.3% (95% CI: 33.6; 73.9); 25 (1.2%) vs 60 (2.9%) cases of COVID-19 for Vaxzevria (N=2,068) and control (N=2,040), respectively; which was similar to the vaccine efficacy observed in the overall population.

Evidence shows protection starts from approximately 3 weeks after first dose of vaccine. A second dose should be given at a 4 to 12-week interval after the first dose (see section 4.4).

## Immunogenicity after booster dose

Study D7220C00001, immunogenicity of a booster dose (third dose) following primary vaccination with Vaxzevria or an mRNA COVID-19 vaccine

D7220C00001 is a phase II/III partially double-blind, active-controlled study in which 373 participants ≥30 years old previously vaccinated with Vaxzevria, and 322 participants ≥30 years old previously vaccinated with an mRNA vaccine, received a single booster dose of Vaxzevria at least 90 days after receiving the second dose of their primary vaccination course. Immunogenicity was assessed in 345 participants previously vaccinated with Vaxzevria and 296 participants previously vaccinated with an mRNA vaccine, all of whom were seronegative at baseline.

The effectiveness of Vaxzevria administered as a single booster dose in participants previously vaccinated with Vaxzevria was demonstrated by evaluating non-inferiority of the immune response of pseudoneutralising antibody titres against the ancestral strain compared to that elicited by a 2-dose primary vaccination course in a subset of matched participants in study D8110C00001.

Non-inferiority for GMT ratio was demonstrated when comparing pseudoneutralising antibody titres 28 days after the booster dose to titres 28 days after the primary vaccination course (see Table 4).

Table 4. Neutralising antibody titres against the ancestral strain following booster dosing with Vaxzevria in participants previously vaccinated with Vaxzevria

	28 days after primary vaccination course with Vaxzevria <sup>a</sup>	28 days after booster dose	GMT ratio <sup>b</sup>	Met non-inferiority objective (Y/N)
n	508	329	329/508	
GMT °	242.80	246.45	1.02	$Y^{d}$
(95% CI)	(224.82, 262.23)	(227.39, 267.12)	(0.90, 1.14)	

n = Number of subjects in analysis; GMT = Geometric mean neutralising antibody titre; CI = Confidence interval, GMT Ratio = Geometric mean titre ratio.

Vaxzevria was also shown to be effective in eliciting antibody responses in participants who had previously received primary vaccination with an mRNA vaccine. In these participants, a single booster dose of Vaxzevria resulted in increased humoral responses, with geometric mean fold rise (GMFR) of

<sup>&</sup>lt;sup>a</sup>. Based on analyses from a matched cohort of participants in study D8110C00001.

b. GMT 28 days after booster dose to GMT 28 days after the second dose of the primary vaccination course. Reported results have been adjusted using an ANCOVA model including fixed-effect terms for visit window, time since previous vaccination (for booster), baseline comorbidities, sex, age and a random subject effect.

<sup>&</sup>lt;sup>d.</sup> Non-inferiority was demonstrated if the lower limit of the 2-sided 95% CI of the GMT ratio of the comparator group and the reference group is >0.67.

3.76 (95% CI: 3.25, 4.35) in neutralising antibody titres against the ancestral strain from pre-booster to 28 days after the booster dose.

## **Elderly population**

Study D8110C00001 assessed the efficacy of Vaxzevria in 5,508 individuals ≥65 years of age; 3,696 who received Vaxzevria and 1,812 who received placebo. The efficacy of Vaxzevria was consistent between elderly (≥65 years) and younger adult subjects (18-64 years).

## Paediatric population

The European Medicines Agency has deferred the obligation to submit the results of studies with Vaxzevria in one or more subsets of the paediatric population in prevention of COVID-19 (see section 4.2 for information on paediatric use).

## 5.2 Pharmacokinetic properties

Not applicable.

## 5.3 Preclinical safety data

In a repeat-dose toxicity study in mice, IM administration of Vaxzevria was well tolerated. Non-adverse, mixed and/or mononuclear cell inflammation was observed in the subcutaneous tissues and skeletal muscle of the administration sites and adjacent sciatic nerve consistent with the anticipated findings after IM injection of vaccines. There were no findings in the administration sites or sciatic nerves at the end of the recovery period, indicating complete recovery of the Vaxzevria-related inflammation.

#### Genotoxicity/Carcinogenicity

Neither genotoxicity nor carcinogenicity studies were performed. The components of the vaccine are not expected to have genotoxic potential.

#### Reproductive toxicity

In a reproductive and development toxicity study, Vaxzevria did not induce maternal or developmental toxicity following maternal exposure during the pre-mating, gestation or lactating periods. In this study, vaccine elicited detectable anti-SARS-CoV-2 S-glycoprotein maternal antibodies were transferred to the foetuses and pups, indicating placental and lactational transfer, respectively. No Vaxzevria data are available on vaccine excretion in milk.

# 6. PHARMACEUTICAL PARTICULARS

#### 6.1 List of excinients

L-Histidine

L-Histidine hydrochloride monohydrate

Magnesium chloride hexahydrate

Polysorbate 80 (E 433)

Ethanol

Sucrose

Sodium chloride

Disodium edetate (dihydrate)

Water for injections

## 6.2 Incompatibilities

This medicinal product must not be mixed with other medicinal products or diluted.

#### 6.3 Shelf life

## Unopened vial

9 months when stored in a refrigerator  $(2^{\circ}C - 8^{\circ}C)$ 

The following information is intended to guide healthcare professionals only in case of an unforeseen temporary temperature excursion. It is not a recommended storage or shipping condition.

The shelf-life of unopened vials includes the following unforeseen excursions from refrigerated storage  $(2^{\circ}C - 8^{\circ}C)$  for a single period of:

- 12 hours up to 30°C
- 72 hours down to -3°C

Unopened vials must always be returned to refrigerated storage (2°C – 8°C) following a temperature excursion.

The occurrence of a temperature excursion for unopened vials does not impact how the vials should be stored after first opening (first vial puncture).

#### Opened vial

Chemical and physical in-use stability have been demonstrated for 6 hours when stored at temperatures up to  $30^{\circ}$ C and for 48 hours when stored in a refrigerator ( $2^{\circ}$ C –  $8^{\circ}$ C). After this time, the vial must be discarded. Do not return it to the refrigerator after storage outside the refrigerator.

Alternatively, an opened vial may be stored in a refrigerator  $(2^{\circ}C - 8^{\circ}C)$  for a maximum of 48 hours if it is immediately returned to the refrigerator following each puncture.

From a microbiological point of view, after first opening the vaccine should be used immediately. If the vaccine is not used immediately, in-use storage times and conditions are the responsibility of the user.

## 6.4 Special precautions for storage

Store in a refrigerator  $(2^{\circ}C - 8^{\circ}C)$ .

Do not freeze.

Keep vials in outer carton in order to protect from light.

For storage conditions after first opening of the medicinal product, see section 6.3.

#### 6.5 Nature and contents of container

#### Multidose vial

10-dose vial

5 ml of suspension in a 10-dose vial (clear type I glass) with stopper (elastomeric with aluminium overseal). Each vial contains 10 doses of 0.5 ml. Pack sizes of 10 multidose vials.

#### 6.6 Special precautions for disposal and other handling

Handling instructions and administration

This vaccine should be handled by a healthcare professional using aseptic technique to ensure the sterility of each dose.

Do not use this vaccine after the expiry date which is stated on the label after EXP.

Unopened multidose vial should be stored in a refrigerator ( $2^{\circ}C - 8^{\circ}C$ ). Do not freeze.

Keep the vials in outer carton in order to protect from light.

The vaccine should be inspected visually for particulate matter and discolouration prior to administration. Vaxzevria is a colourless to slightly brown, clear to slightly opaque suspension. Discard the vial if the suspension is discoloured or visible particles are observed. Do not shake. Do not dilute the suspension.

The vaccine should not be mixed in the same syringe with any other vaccines or medicinal products.

Each vaccine dose of 0.5 ml is withdrawn into a syringe for injection to be administered intramuscularly, preferably in the deltoid muscle of the upper arm. Use a new needle for administration, when possible.

It is normal for liquid to remain in the vial after withdrawing the final dose. An additional overfill is included in each vial to ensure that 10 doses (vial of 5 ml) of 0.5 ml can be delivered. Do not pool excess vaccine from multiple vials. Discard any unused vaccine.

From the time of vial opening (first needle puncture), use within 6 hours when stored at temperatures up to 30°C. After this time, the vial must be discarded. Do not return it to the refrigerator. Alternatively, an opened vial may be stored in a refrigerator  $(2^{\circ}C - 8^{\circ}C)$  for a maximum of 48 hours if it is immediately returned to the refrigerator following each puncture.

#### **Disposal**

Any unused vaccine or waste material should be disposed of in compliance with the local guidance for pharmaceutical waste. Potential spills should be disinfected using agents with viricidal activity against adenovirus.

## 7. MARKETING AUTHORISATION HOLDER

AstraZeneca AB SE-151 85 Södertälje Sweden

## 8. MARKETING AUTHORISATION NUMBER(S)

EU/1/21/1529/002 10 multidose vials (10 doses per vial)

# 9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 29 January 2021 Date of latest renewal: 31 October 2022

#### DATE OF REVISION OF THE TEXT 10.

Detailed information on this medicinal product is available on the website of the European Medicines Agency <a href="http://www.ema.europa.eu">http://www.ema.europa.eu</a>

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ANNEX II

- A. MANUFACTURER(S) OF THE BIOLOGICAL ACTIVE SUBSTANCE(S) AND MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE
- C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION
- D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

# A. MANUFACTURER(S) OF THE BIOLOGICAL ACTIVE SUBSTANCE(S) AND MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturer(s) of the biological active substance

Catalent Maryland, Inc 7555 Harmans Road Harmans, MD 21077 United States

Oxford Biomedica (UK) Limited Unit A Plot 7000 Alec Issigonis Way Oxford OX4 2ZY United Kingdom

Name and address of the manufacturer(s) responsible for batch release

AstraZeneca Nijmegen B.V. Lagelandseweg 78 Nijmegen, 6545CG Netherlands

## B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to medical prescription

#### • Official batch release

In accordance with Article 114 of Directive 2001/83/EC, the official batch release will be undertaken by a state laboratory or a laboratory designated for that purpose.

# C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

## • Periodic safety update reports (PSURs)

The requirements for submission of PSURs for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

The marketing authorisation holder (MAH) shall submit the first PSUR for this product within 6 months following authorisation.

# D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

#### • Risk management plan (RMP)

The marketing authorisation holder (MAH) shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the marketing authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information

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ANNEX III AND PAREAGE LEAFLET

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#### PARTICULARS TO APPEAR ON THE OUTER PACKAGING

## **CARTON - TEN-DOSE VIAL, PACK OF 10 VIALS**

#### 1. NAME OF THE MEDICINAL PRODUCT

Vaxzevria suspension for injection COVID-19 Vaccine (ChAdOx1-S [recombinant])

## 2. STATEMENT OF ACTIVE SUBSTANCE(S)

One dose (0.5 ml) contains not less than  $2.5 \times 10^8$  infectious units.

Chimpanzee Adenovirus encoding the SARS-CoV-2 Spike glycoprotein ChAdOx1-S

This medicine contains genetically modified organisms.

## 3. LIST OF EXCIPIENTS

Excipients: L-histidine, L-histidine hydrochloride monohydrate, magnesium chloride hexahydrate, polysorbate 80 (E 433), ethanol, sucrose, sodium chloride, disodium edetate (dihydrate), water for injections.

See leaflet for further information.

# 4. PHARMACEUTICAL FORM AND CONTENTS

Suspension for injection 10 multidose vials (10 doses per vial - 0.5 ml per dose 5 ml

## 5. METHOD AND ROUTE(S) OF ADMINISTRATION

Intramuscular use
Read the package leaflet before use.
For more information, scan here or visit www.azcovid-19.com
QR code to be included

# 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

# 7. OTHER SPECIAL WARNING(S), IF NECESSARY

## 8. EXPIRY DATE

## 9. SPECIAL STORAGE CONDITIONS

Store in a refrigerator.

Keep vials in outer carton in order to protect from light.

Do not freeze. Do not shake.

For information on the shelf life after first opening and additional storage information, see the package leaflet.

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

Dispose of in compliance with the local guidance for pharmaceutical waste

## 11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

AstraZeneca AB SE-151 85 Södertälje Sweden

## 12. MARKETING AUTHORISATION NUMBER(S)

EU/1/21/1529/002

10 multidose vials (10 doses per vial)

## 13. BATCH NUMBER

Lot

## 14. GENERAL CLASSIFICATION FOR SUPPLY

## 15. INSTRUCTIONS ON USE

## 16. INFORMATION IN BRAILLE

Justification for not including Braille accepted.

## 17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

## 18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC

Medicinal product no longer authorised wedicinal product no longer authorised wedicinal product no longer authorised auth

1.	NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION
	zevria injection /ID-19 Vaccine (ChAdOx1-S [recombinant])
IM	
2.	METHOD OF ADMINISTRATION
3.	EXPIRY DATE
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10 do 5 ml	oses of 0.5 ml
6.	OTHER
Astra	aZeneca
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MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

VIAL LABEL - TEN-DOSE VIAL

B. PACKAGE LEAGHT

R. PACKAGE LEAGHT

A COLUMN TO THE PACKAGE

## Package leaflet: Information for the user

## Vaxzevria suspension for injection

COVID-19 Vaccine (ChAdOx1-S [recombinant])

This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

# Read all of this leaflet carefully before the vaccine is given because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, pharmacist or nurse.
- If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

#### What is in this leaflet

- 1. What Vaxzevria is and what it is used for
- 2. What you need to know before you are given Vaxzevria
- 3. How Vaxzevria is given
- 4. Possible side effects
- 5. How to store Vaxzevria
- 6. Contents of the pack and other information

## 1. What Vaxzevria is and what it is used for

Vaxzevria is used for preventing COVID-19 caused by the SARS-CoV-2 virus.

Vaxzevria is given to adults aged 18 years and older.

The vaccine causes the immune system (the body's natural defences) to produce antibodies and specialised white blood cells that work against the virus, so giving protection against COVID-19. None of the ingredients in this vaccine can cause COVID-19.

## 2. What you need to know before you are given Vaxzevria

## The vaccine must not be given:

- If you are allergic to the active substance or any of the other ingredients of this vaccine (listed in section 6).
- If you have had a blood clot occurring at the same time as having low levels of blood platelets (thrombosis with thrombocytopenia syndrome, TTS) after receiving Vaxzevria.
- If you have a previous diagnosis of capillary leak syndrome (a condition causing fluid leakage from small blood vessels).

# Warnings and precautions

Talk to your doctor, pharmacist or nurse before you are given Vaxzevria:

- If you have ever had a severe allergic reaction after any other vaccine injection or after you were given Vaxzevria in the past.
- If you have ever fainted following any needle injection.
- If you have a severe infection with a high temperature (over 38°C). However, you can have your vaccination if you have a mild fever or upper airway infection like a cold.
- If you have a problem with bleeding or bruising, or if you are taking an anticoagulant medicine (to prevent blood clots).

- If your immune system does not work properly (immunodeficiency) or you are taking medicines that weaken the immune system (such as high-dose corticosteroids, immunosuppressants or cancer medicines).
- If you previously had Guillain-Barré syndrome (temporary loss of feeling and movement) after being given Vaxzevria.
- If you previously had transverse myelitis (inflammation of the spinal cord) after being given Vaxzevria.
- If you have risk factors for blood clots in your veins (venous thromboembolism (VTE)

If you are not sure if any of the above applies to you, talk to your doctor, pharmacist or nurse before you are given the vaccine.

As with any vaccine, the 2-dose vaccination course of Vaxzevria may not fully protect all those who receive it. It is not known how long you will be protected for.

#### **Blood** disorders

Very rare blood clots in combination with low level of blood platelets, in some cases together with bleeding, has been observed following vaccination with Vaxzevria. This included some severe cases with blood clots in different or unusual locations (e.g., brain, bowel, liver, spleen) and excessive clotting or bleeding throughout the body. The majority of these cases occurred within the first three weeks following vaccination. Some cases had a fatal outcome. Fewer cases have been reported after the second dose compared to after the first dose.

Blood clots in the brain, not associated with low level of blood platelets have been observed very rarely following vaccination with Vaxzevria. The majority of these cases occurred within the first four weeks following vaccination. Some cases had a fatal outcome.

Blood clots in veins (venous thromboembolism (VTE)) have been observed following vaccination with Vaxzevria.

Very low levels of blood platelets (immune thrombocytopenia), that can be associated with bleeding, have been reported very rarely, usually within the first four weeks following vaccination with Vaxzevria.

Seek immediate medical attention if you develop shortness of breath, chest pain, leg swelling, leg pain or persistent abdominal pain following vaccination (see section 4).

Also, seek immediate medical attention if you experience after a few days following vaccination severe or persistent headaches, blurred vision, confusion or seizures (fits) after vaccination, or experience unexplained bleeding or skin bruising or pinpoint round spots beyond the site of vaccination which appears after a few days (see section 4).

## Capillary leak syndrome

Very rare cases of capillary leak syndrome (CLS) have been reported following vaccination with Vaxzevria. Some affected patients had a previous diagnosis of CLS. CLS is a serious, potentially fatal condition causing fluid leakage from small blood vessels (capillaries) resulting in rapid swelling of the arms and legs, sudden weight gain and feeling faint (low blood pressure). Seek immediate medical attention if you develop these symptoms in the days following vaccination.

## Neurological events

## Guillain-Barré syndrome (GBS):

Seek immediate medical attention if you develop weakness and paralysis in the extremities that can progress to the chest and face (Guillain-Barré syndrome). This has been reported very rarely after vaccination with Vaxzevria.

#### <u>Inflammation of the spinal cord (transverse myelitis, TM):</u>

Seek immediate medical attention if you develop signs of weakness in the arms or legs, sensory symptoms (such as tingling, numbness, pain or loss of pain sensation) and urinary or bowel dysfunction. This has been reported very rarely after vaccination with Vaxzevria.

## Risk of severe adverse events after a booster dose

The risk of severe adverse events (such as blood disorders including thrombosis with thrombocytopenia syndrome, VTE, CLS, GBS, TM) after a booster dose of Vaxzevria is unknown.

#### Children and adolescents

Vaxzevria is not recommended for children aged below 18 years. Currently there is not enough information available on the use of Vaxzevria in children and adolescents younger than 18 years of age.

#### Other medicines and Vaxzevria

Tell your doctor, pharmacist or nurse if you are taking, have recently taken or might take, any other medicines or vaccines.

#### **Pregnancy and breastfeeding**

If you are pregnant or breastfeeding, think you may be pregnant, or are planning to have a baby, ask your doctor, pharmacist or nurse for advice before you receive this vaccine.

## **Driving and using machines**

Some of the side effects of Vaxzevria listed in section 4 (Possible side effects) may temporarily reduce your ability to drive and use machines. If you feel unwell after vaccination, do not drive or use machines. Wait until any effects of the vaccine have worn off before you drive or use machines.

## Vaxzevria contains sodium and alcohol (ethanol)

This medicine contains less than 1 mmol sodium (23 mg) per 0.5 ml dose, that is to say essentially 'sodium-free'.

This medicine contains 2 mg of alcohol (ethanol) per 0.5 ml dose. The small amount of alcohol in this medicine will not have any noticeable effects.

## 3. How Vaxzevria is given

Vaxzevria is given as an injection of 0.5 ml into a muscle (usually in the upper arm).

During and after each injection of the vaccine, your doctor, pharmacist or nurse will watch over you for around 15 minutes to monitor for signs of an allergic reaction.

## Primary vaccination course

You will receive 2 injections of Vaxzevria. The second injection can be given between 4 and 12 weeks after the first injection. You will be told when you need to return for your second injection.

# If you miss an appointment for your second injection of Vaxzevria

If you forget to go back at the scheduled time, ask your doctor, pharmacist or nurse for advice. It is important that you return for your second injection of Vaxzevria. If you miss a scheduled injection, you may not be fully protected against COVID-19.

#### Booster dose

You may receive a booster injection of Vaxzevria. The booster injection may be given at least 3 months after you have completed the primary vaccination course with Vaxzevria or an mRNA COVID-19 vaccine.

#### 4. Possible side effects

Like all medicines, this vaccine can cause side effects, although not everybody gets them.

In clinical studies, most side effects were mild to moderate in nature and resolved within a few days. Fewer side effects were reported after the second dose.

After vaccination, you may have more than one side effect at the same time (for example, muscle/joint aches, headaches, chills and generally feeling unwell). If any of your symptoms are persistent, please seek advice from your doctor, pharmacist or nurse.

Blood clots in combination with low levels of blood platelets (thrombosis with thrombocytopenia syndrome, TTS) have been reported very rarely, see section 2.

**Get medical attention immediately** if within three weeks of vaccination you get any of the following symptoms:

- experience a severe or persistent headache, blurred vision, confusion or seizures (fits)
- develop shortness of breath, chest pain, leg swelling, leg pain or persistent abdominal pain
- notice unusual skin bruising or pinpoint round spots beyond the site of vaccination

**Get urgent medical attention** if you get symptoms of a severe allergic reaction. Such reactions may include a combination of any of the following symptoms:

- feeling faint or light-headed
- changes in your heartbeat
- shortness of breath
- wheezing
- swelling of your lips, face, or throat
- hives or rash
- nausea or vomiting
- stomach pain

## The following side effects may occur with Vaxzevria:

Very Common (may affect more than 1 in 10 people)

- tenderness, pain, warmth, itching, or bruising where the injection is given
- feeling tired (fatigue) or generally feeling unwell
- chills, fever or feeling feverish
- headache
- feeling sick (nausea)
- joint pain or muscle ache

#### **Common** (may affect up to 1 in 10 people)

- swelling or redness where the injection is given
- being sick (vomiting), diarrhoea or abdominal pain
- mild and transient decreased level of blood platelets (laboratory findings)
- pain in legs or arms
- flu-like symptoms, such as high temperature, sore throat, runny nose, cough and chills
- physical weakness or lack of energy
- feeling dizzy

## **Uncommon** (may affect up to 1 in 100 people)

- sleepiness or deep unresponsiveness and inactivity
- decreased appetite
- enlarged lymph nodes
- excessive sweating, itchy skin, rash or hives
- muscle spasms
- unusual feeling in the skin, such as tingling or a crawling feeling (paraesthesia)
- decreased feeling or sensitivity, especially in the skin (hypoaesthesia)

- persistent ringing in the ears (tinnitus)

Rare (may affect up to 1 in 1,000 people)

- one-sided facial drooping

Very Rare (may affect up to 1 in 10,000 people)

- blood clots often in unusual locations (e.g., brain, bowel, liver, spleen) in combination with low level of blood platelets
- serious nerve inflammation, which may cause paralysis and difficulty breathing (Guillain-Barré syndrome [GBS])

Not known (cannot be estimated from the available data)

- severe allergic reaction (anaphylaxis)
- hypersensitivity
- rapid swelling under the skin in areas such as the face, lips, mouth and throat (which may cause difficulty in swallowing or breathing)
- capillary leak syndrome (a condition causing fluid leakage from small blood vessels)
- very low levels of blood platelets (immune thrombocytopenia) that can be associated with bleeding (see section 2, Blood disorders)
- blood clots in the brain, not associated with low level of blood platelets (see section 2, Blood disorders)
- blood clots in veins (venous thromboembolism (VTE))
- inflammation of the spinal cord (transverse myelitis)
- inflammation of blood vessels in the skin, often with a rash or small red or purple, flat, round spots under the skin's surface or bruising (cutaneous vasculitis)

#### Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in <u>Appendix V</u>. By reporting side effects you can help provide more information on the safety of this medicine.

## 5. How to store Vaxzevria

Keep this medicine out of the sight and reach of children.

Your doctor, pharmacist or nurse is responsible for storing this vaccine and disposing of any unused product correctly. The following information about storage, expiry, use and handling as well as disposal is intended for healthcare professionals.

Do not use this vaccine after the expiry date which is stated on the label after EXP.

Store in a refrigerator  $(2^{\circ}C - 8^{\circ}C)$ .

Do not freeze.

Keep vials in outer carton in order to protect from light.

From the time of vial opening (first needle puncture) use within 6 hours when stored at temperatures up to 30°C. After this time, the vial must be discarded. Do not return it to the refrigerator.

Alternatively, an opened vial may be stored in a refrigerator  $(2^{\circ}C - 8^{\circ}C)$  for a maximum of 48 hours if it is immediately returned to the refrigerator following each puncture.

Discard the vial if the suspension is discoloured or particles are observed. Do not shake.

## 6. Contents of the pack and other information

#### What Vaxzevria contains

One dose (0.5 ml) contains:

Chimpanzee Adenovirus encoding the SARS-CoV-2 Spike glycoprotein ChAdOx1-S\*, not less than  $2.5 \times 10^8$  infectious units

\*Produced in genetically modified human embryonic kidney (HEK) 293 cells and by recombinant DNA technology.

This product contains genetically modified organisms (GMOs).

The other excipients are L-histidine, L-histidine hydrochloride monohydrate, magnesium chloride hexahydrate, polysorbate 80 (E 433), ethanol, sucrose, sodium chloride, disodium edetate (dihydrate), water for injections (see section 2 "Vaxzevria contains sodium and alcohol").

## What Vaxzevria looks like and contents of the pack

Suspension for injection (injection). The suspension is colourless to slightly brown, clear to slightly opaque.

10-dose multidose vial (5 ml) with stopper (elastomeric with aluminium overseal) in a pack of 10 vials. Each vial contains 10 doses of 0.5 ml.

## **Marketing Authorisation Holder**

AstraZeneca AB SE-151 85 Södertälje Sweden

#### Manufacturer

AstraZeneca Nijmegen B.V. Lagelandseweg 78 Nijmegen, 6545CG Netherlands

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

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This leaflet was last revised in

Other sources of information

Scan the QR code with a mobile device to get this information in different languages.

www.azcovid-19.com

Detailed information on this medicine is available on the European Medicines Agency web site: <a href="http://www.ema.europa.eu">http://www.ema.europa.eu</a>

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This leaflet is available in all EU/EEA languages on the European Medicines Agency website.

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The following information is intended for healthcare professionals only:

For storage and disposal, see section 5 "How to store Vaxzevria".

## **Traceability**

In order to improve the traceability of biological medicinal products, the name and the batch number of the administered product should be clearly recorded.

## Handling instructions and administration

This vaccine should be handled by a healthcare professional using aseptic technique to ensure the sterility of each dose.

The vaccine should be inspected visually for particulate matter and discolouration prior to administration. Vaxzevria is a colourless to slightly brown, clear to slightly opaque suspension. Discard the vial if the suspension is discoloured or visible particles are observed. Do not shake. Do not dilute the suspension.

The vaccine should not be mixed in the same syringe with any other vaccines or medicinal products.

The Vaxzevria primary vaccination course consists of two separate doses of 0.5 ml each. The second dose should be administered between 4 and 12 weeks after the first dose.

A booster dose (third dose) of 0.5 ml may be given to individuals who completed the primary vaccination course with Vaxzevria or an mRNA COVID-19 vaccine. The third dose should be administered at least 3 months after completing the primary vaccination course.

Each vaccine dose of 0.5 ml is withdrawn into a syringe for injection to be administered intramuscularly, preferably in the deltoid muscle of the upper arm. Use a new needle for administration, when possible.

It is normal for liquid to remain in the vial after withdrawing the final dose. An additional overfill is included in each vial to ensure that 10 doses (vial of 5 ml) of 0.5 ml can be delivered. Do not pool excess vaccine from multiple vials. Discard any unused vaccine.

#### **Disposal**

Any unused vaccine or waste material should be disposed of in compliance with the local guidance for pharmaceutical waste. Potential spills should be disinfected with agents with viricidal activity against adenovirus