

**ANNEX I**

**SUMMARY OF PRODUCT CHARACTERISTICS**

▼ 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**

JCOVDEN suspension for injection  
COVID-19 vaccine (Ad26.COV2-S [recombinant])

## **2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

This is a multi-dose vial which contains 5 doses of 0.5 mL.

One dose (0.5 mL) contains:

Adenovirus type 26 encoding the SARS-CoV-2 spike glycoprotein\* (Ad26.COV2-S), not less than 8.92 log<sub>10</sub> infectious units (Inf.U).

\* Produced in the PER.C6 TetR Cell Line and by recombinant DNA technology.

The product contains genetically modified organisms (GMOs).

### Excipients 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).

Colourless to slightly yellow, clear to very opalescent suspension (pH 6-6.4).

## **4. CLINICAL PARTICULARS**

### **4.1 Therapeutic indications**

JCOVDEN 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*

Primary vaccination

JCOVDEN is administered as a single-dose of 0.5 mL by intramuscular injection only.

## Booster dose

A booster dose (second dose) of 0.5 mL of JCOVDEN may be administered intramuscularly at least 2 months after the primary vaccination in individuals 18 years of age and older (see also sections 4.4, 4.8 and 5.1).

A booster dose of JCOVDEN (0.5 mL) may be administered in individuals 18 years of age and older as a heterologous booster dose following completion of primary vaccination with an mRNA COVID-19 vaccine or an adenoviral vector-based COVID-19 vaccine. The dosing interval for the heterologous booster dose is the same as that authorised for a booster dose of the vaccine used for primary vaccination (see also sections 4.4, 4.8 and 5.1).

## *Paediatric population*

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

## *Elderly*

No dose adjustment is required in elderly individuals  $\geq 65$  years of age. See also sections 4.8 and 5.1.

## Method of administration

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

Do not inject the vaccine intravascularly, intravenously, 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 of the vaccine, see section 6.6.

## **4.3 Contraindications**

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

A history of confirmed thrombosis with thrombocytopenia syndrome (TTS) following vaccination with any COVID-19 vaccine (see also section 4.4).

Individuals who have previously experienced episodes of capillary leak syndrome (CLS) (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 reaction following the administration of the vaccine. Close observation for at least 15 minutes is recommended following vaccination.

### 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:*** A combination of thrombosis and thrombocytopenia, in some cases accompanied by bleeding, has been observed very rarely following vaccination with JCOVDEN. This includes severe cases of venous thrombosis at unusual sites such as cerebral venous sinus thrombosis (CVST), splanchnic vein thrombosis as well as arterial thrombosis concomitant with thrombocytopenia. Fatal outcome has been reported. These cases occurred within the first three weeks following vaccination, and mostly in individuals under 60 years of age.  
Thrombosis in combination with thrombocytopenia 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. Individuals who have experienced thrombosis with thrombocytopenia syndrome following vaccination with any COVID-19 vaccine should not receive JCOVDEN (See also section 4.3).
- ***Venous thromboembolism:*** Venous thromboembolism (VTE) has been observed rarely following vaccination with JCOVDEN (see section 4.8). This should be considered for individuals at increased risk for VTE.
- ***Immune thrombocytopenia:*** Cases of immune thrombocytopenia with very low platelet levels (<20000 per  $\mu\text{L}$ ) have been reported very rarely after vaccination with JCOVDEN, usually within the first four weeks after receiving JCOVDEN. This included cases with bleeding and cases with fatal outcome. Some of these cases occurred in individuals with a history of immune thrombocytopenia (ITP). If an individual has a history of ITP, the risks of developing low platelet levels should be considered before vaccination, 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 pain, leg swelling, or persistent abdominal pain following vaccination. Additionally, anyone with neurological symptoms including severe or persistent headaches, seizures, mental status changes or blurred vision 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 3 weeks after vaccination with JCOVDEN should be actively investigated for signs of thrombosis. Similarly, individuals who present with thrombosis within 3 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 JCOVDEN, in some cases with a fatal outcome. A history of CLS 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.

### Guillain-Barré syndrome and transverse myelitis

Guillain-Barré syndrome (GBS) and transverse myelitis (TM) have been reported very rarely following vaccination with JCOVDEN. Healthcare professionals should be alert to 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.

### Myocarditis and pericarditis

There is an increased risk of myocarditis and pericarditis following vaccination with JCOVDEN (section 4.8). These conditions can develop within just a few days after vaccination and have primarily occurred within 14 days. They have been observed more often in males younger than 40 years of age.

Healthcare professionals should be alert to the signs and symptoms of myocarditis and pericarditis. Vaccinees should be instructed to seek immediate medical attention if they develop symptoms indicative of myocarditis or pericarditis such as (acute and persisting) chest pain, shortness of breath, or palpitations following vaccination. Healthcare professionals should consult guidance and/or specialists to diagnose and treat these conditions.

### Risk of severe adverse events after a booster dose

The risk of severe adverse events (such as coagulation disorders including thrombosis with thrombocytopenia syndrome, CLS, GBS, myocarditis and pericarditis) after a booster dose of JCOVDEN 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 JCOVDEN 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 trials.

### Limitations of vaccine effectiveness

Protection starts around 14 days after vaccination. As with all vaccines, vaccination with JCOVDEN 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 JCOVDEN with other vaccines has not been studied.

### **4.6 Fertility, pregnancy and lactation**

#### Pregnancy

There is limited experience with the use of JCOVDEN in pregnant women. Animal studies with JCOVDEN do not indicate direct or indirect harmful effects with respect to pregnancy, embryo/foetal development, parturition or postnatal development (see section 5.3).

Administration of JCOVDEN in pregnancy should only be considered when the potential benefits outweigh any potential risks to the mother and foetus.

#### Breast-feeding

It is unknown whether JCOVDEN is excreted in human milk.

#### Fertility

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

### **4.7 Effects on ability to drive and use machines**

JCOVDEN 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 safety profile

##### *Primary vaccination (primary pooled analysis)*

The safety of JCOVDEN was evaluated in the primary pooled analysis from the double-blind phase of the randomised, placebo-controlled studies COV1001, COV1002, COV2001, COV3001 and COV3009. A total of 38,538 adults aged 18 years and older received at least a single-dose primary vaccination of JCOVDEN. The median age of individuals was 52 years (range 18-100 years). For the primary pooled analysis, the median follow-up for individuals who received JCOVDEN was approximately 4 months after completion of primary vaccination. Longer safety follow-up of  $\geq 6$  months is available for 6,136 adults who received JCOVDEN.

In the primary pooled analysis, the most common local adverse reactions reported was injection site pain (54.3%). The most common systemic adverse reactions were fatigue (44.0%), headache (43.0%), myalgia (38.1%) and nausea (16.9%). Pyrexia (defined as body temperature  $\geq 38.0^{\circ}\text{C}$ ) was observed in 7.2% of participants. Most adverse reactions were mild to moderate in severity. Across the studies, most adverse reactions occurred within 1–2 days following vaccination and were of short duration (1–2 days).

Reactogenicity was generally milder and reported less frequently in older adults .

The safety profile was generally consistent across participants with or without prior evidence of SARS-CoV-2 infection at baseline. A total of 10.6% of individuals that received JCOVDEN were SARS-CoV-2 positive at baseline (based on serology or RT-PCR assessment).

#### *Booster dose (second dose) following primary vaccination with JCOVDEN*

The safety of a booster dose (second dose) with JCOVDEN administered approximately 2 months after the primary vaccination was evaluated in an ongoing randomised, double-blind, placebo-controlled Phase 3 Study (COV3009). In the FAS (full analysis set), from the 15708 adults aged 18 years and older who received 1 dose of JCOVDEN, a total of 8646 individuals received a second dose during the double-blind phase.

The safety of a booster dose (second dose) with JCOVDEN administered at least 6 months after the primary vaccination was evaluated in a randomised, double-blind Phase 2 Study (COV2008 Cohort 1 N=330).

Overall, the solicited adverse reaction profile for the homologous booster dose was similar to that after the first dose. There were no new safety signals identified.

#### *Booster dose following primary vaccination with an mRNA COVID-19 vaccine*

Overall, in 3 clinical studies (including 2 independent studies) approximately 500 adults have received primary vaccination with 2 doses of an mRNA COVID-19 vaccine and received a single booster dose of JCOVDEN, at least 3 months after primary vaccination (COV2008, COV-BOOST and DMID 21-0012 studies). There were no new safety concerns identified. However, a trend towards an increase in frequency and severity of solicited local and systemic adverse events after the heterologous booster dose was observed when compared with the homologous booster dose of JCOVDEN.

#### *Booster dose following primary vaccination with an adenoviral vector-based COVID-19 vaccine*

The safety of a heterologous booster dose of JCOVDEN was evaluated in the COV-BOOST study following primary vaccination with an adenoviral vector-based COVID-19 vaccine. Participants received 2 doses of Vaxzevria (N=108) followed by a booster dose of JCOVDEN 77 days post second dose (median; IQR: 72-83 days). There were no new safety concerns identified.

#### Tabulated list of adverse reactions

Adverse drug reactions observed in the primary pooled analysis or from post marketing sources are organised by MedDRA System Organ Class (SOC). Frequency categories are defined as follows:

Very common ( $\geq 1/10$ );

Common ( $\geq 1/100$  to  $< 1/10$ );

Uncommon ( $\geq 1/1000$  to  $< 1/100$ );

Rare ( $\geq 1/10000$  to  $< 1/1000$ );

Very rare ( $< 1/10000$ );

Not known (cannot be estimated from the available data).

Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

**Table 1: Adverse reactions reported following vaccination with JCOVDEN**

System Organ Class	Very common ( $\geq 1/10$ )	Common ( $\geq 1/100$ to $< 1/10$ )	Uncommon ( $\geq 1/1000$ to $< 1/100$ )	Rare ( $\geq 1/10000$ to $< 1/1000$ )	Very Rare ( $< 1/10000$ )	Not known (cannot be estimated from the available data)
Blood and lymphatic system disorders				Lymph-adenopathy		Immune thrombocytopenia

Immune system disorders				Urticaria; hypersensitivity <sup>a</sup>		Anaphylaxis <sup>b</sup>
Nervous system disorders	Headache		Dizziness; tremor;	Paraesthesia; hypoaesthesia, Facial paralysis (including Bell's palsy)	Guillain-Barré syndrome	Transverse myelitis
Ear and labyrinth disorders				Tinnitus		
Cardiac disorders						Myocarditis, pericarditis
Vascular disorders				Venous thromboembolism	Thrombosis in combination with thrombocytopenia	Capillary leak syndrome; cutaneous small vessel vasculitis
Respiratory, thoracic and mediastinal disorders			Cough; oropharyngeal pain; Sneezing			
Gastrointestinal disorders	Nausea		Diarrhoea; vomiting			
Skin and subcutaneous tissue disorders			Rash	Hyperhidrosis		
Musculoskeletal and connective tissue disorders	Myalgia		Arthralgia; muscular weakness; back pain; pain in extremity			
General disorders and administration site conditions	Injection site pain; fatigue	Pyrexia; injection site erythema; injection site swelling; chills	Malaise; asthenia			

<sup>a</sup> Hypersensitivity refers to allergic reactions of the skin and subcutaneous tissue.

<sup>b</sup> Cases received from an ongoing open-label study in South Africa.

### 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**

No case of overdose has been reported. In Phase 1/2 studies where a higher dose (up to 2-fold) was administered JCOVDEN remained well-tolerated, however vaccinated individuals reported an increase in reactogenicity (increased vaccination site pain, fatigue, headache, myalgia, nausea and pyrexia).

In the event of overdose, monitoring of vital functions and possible symptomatic treatment is recommended.



## 5. PHARMACOLOGICAL PROPERTIES

### 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: COVID-19, viral vector, non-replicating, ATC code: J07BN02

#### Mechanism of action

JCOVDEN is a monovalent vaccine composed of a recombinant, replication-incompetent human adenovirus type 26 vector that encodes a SARS-CoV-2 full-length spike (S) glycoprotein in a stabilised conformation. Following administration, the S glycoprotein of SARS-CoV-2 is transiently expressed, stimulating both neutralising and other functional S-specific antibodies, as well as cellular immune responses directed against the S antigen, which may contribute to protection against COVID-19.

#### Clinical efficacy

##### *Efficacy from a single-dose primary vaccination*

##### *Primary analysis*

A primary analysis (cut-off date 22 January 2021) of a multicentre, randomised, double-blind, placebo-controlled Phase 3 study (COV3001) was conducted in the United States, South Africa and Latin American countries to assess the efficacy, safety, and immunogenicity of a single-dose primary vaccination of JCOVDEN for the prevention of COVID-19 in adults aged 18 years and older. The study excluded individuals with abnormal function of the immune system resulting from a clinical condition, individuals who are under immunosuppressive therapies within 6 months, as well as pregnant women. Participants with stable HIV infection under treatment were not excluded. Licensed vaccines, excluding live vaccines, could be administered more than 14 days before or more than 14 days after the vaccination in the study. Licensed live attenuated vaccines could be administered more than 28 days before or more than 28 days after the vaccination in the study.

A total of 44325 individuals were randomised in parallel in a 1:1 ratio to receive an intramuscular injection of JCOVDEN or placebo. A total of 21895 adults received JCOVDEN and 21888 adults received placebo. Participants were followed for a median follow-up of approximately 2 months after vaccination.

The primary efficacy analysis population of 39321 individuals included 38059 SARS-CoV-2 seronegative individuals at baseline and 1262 individuals with an unknown serostatus.

Demographic and baseline characteristics were similar among individuals who received JCOVDEN and those who received placebo. In the primary efficacy analysis population, among the individuals who received JCOVDEN, the median age was 52.0 years (range: 18 to 100 years); 79.7% (N=15646) of individuals were 18 to 64 years old [with 20.3% (N=3984) aged 65 or older and 3.8% (N=755) aged 75 or older]; 44.3% of individuals were female; 46.8% were from Northern America (United States), 40.6% were from Latin America and 12.6% were from Southern Africa (South Africa). A total of 7830 (39.9%) individuals had at least one pre-existing comorbidity associated with increased risk of progression to severe COVID-19 at baseline. Comorbidities included: obesity defined as BMI  $\geq 30$  kg/m<sup>2</sup> (27.5%), hypertension (10.3%), type 2 diabetes (7.2%), stable/well-controlled HIV infection (2.5%), serious heart conditions (2.4%) and asthma (1.3%). Other comorbidities were present in  $\leq 1\%$  of the individuals.

COVID-19 cases were confirmed by a central laboratory based on a positive SARS-CoV-2 viral RNA result using a polymerase chain reaction (PCR)-based test. Vaccine efficacy overall and by key age groups are presented in Table 2.

**Table 2: Analysis of vaccine efficacy against COVID-19<sup>b</sup> in SARS-CoV-2 seronegative adults - primary efficacy analysis population after a single-dose**

Subgroup	JCOVDEN N=19630		Placebo N=19691		% Vaccine Efficacy (95% CI) <sup>c</sup>
	COVID-19 Cases (n)	Person- Years	COVID-19 Cases (n)	Person- Years	
14 days post-vaccination					
All subjects <sup>a</sup>	116	3116.6	348	3096.1	66.9 (59.0; 73.4)
18 to 64 years of age	107	2530.3	297	2511.2	64.2 (55.3; 71.6)
65 years and older	9	586.3	51	584.9	82.4 (63.9; 92.4)
75 years and older	0	107.4	8	99.2	100 (45.9; 100.0)
28 days post-vaccination					
All subjects <sup>a</sup>	66	3102.0	193	3070.7	66.1 (55.0; 74.8)
18 to 64 years of age	60	2518.7	170	2490.1	65.1 (52.9; 74.5)
65 years and older	6	583.3	23	580.5	74.0 (34.4; 91.4)
75 years and older	0	106.4	3	98.1	—

<sup>a</sup> Co-primary endpoint as defined in the protocol.

<sup>b</sup> Symptomatic COVID-19 requiring positive RT-PCR result and at least 1 respiratory sign or symptom or 2 other systemic signs or symptoms, as defined in the protocol.

<sup>c</sup> Confidence intervals for 'All Subjects' were adjusted to implement type I error control for multiple testing. Confidence intervals for age groups are presented unadjusted.

Vaccine efficacy against severe COVID-19 is presented in Table 3 below.

**Table 3: Analyses of vaccine efficacy against severe COVID-19<sup>a</sup> in SARS-CoV-2 seronegative adults - primary efficacy analysis population after a single-dose**

Subgroup	JCOVDEN N=19630		Placebo N=19691		% Vaccine Efficacy (95% CI) <sup>b</sup>
	COVID-19 Cases (n)	Person- Years	COVID-19 Cases (n)	Person- Years	
14 days post-vaccination					
Severe	14	3125.1	60	3122.0	76.7 (54.6; 89.1)
28 days post-vaccination					
Severe	5	3106.2	34	3082.6	85.4 (54.2; 96.9)

<sup>a</sup> Final determination of severe COVID-19 cases was made by an independent adjudication committee, who also assigned disease severity according to the definition per FDA guidance.

<sup>b</sup> Confidence intervals were adjusted to implement type I error control for multiple testing.

Of the 14 vs. 60 severe cases with onset at least 14 days after vaccination in the JCOVDEN group vs. placebo group, 2 vs. 6 were hospitalised. Three individuals died (all in the placebo group). The majority of the remaining severe cases fulfilled only the oxygen saturation (SpO<sub>2</sub>) criterion for severe disease ( $\leq 93\%$  on room air).

#### *Updated analyses*

The updated efficacy analyses at the end of the double-blind phase (cut-off date 09 July 2021) were performed with additional confirmed COVID-19 cases accrued during blinded, placebo-controlled follow-up, with a median follow-up of 4 months after a single-dose of JCOVDEN.

**Table 4: Analysis of vaccine efficacy against symptomatic<sup>a</sup> and severe<sup>b</sup> COVID-19 – 14 days and 28 days after a single-dose**

Endpoint <sup>c</sup>	JCOVDEN		Placebo		% Vaccine Efficacy (95% CI)
	N=19577 <sup>d</sup>		N=19608 <sup>d</sup>		
	COVID-19 Cases (n)	Person-Years	COVID-19 Cases (n)	Person-Years	
14 days post-vaccination					
Symptomatic COVID-19	484	6685.6	1067	6440.2	56.3 (51.3; 60.9)
18 to 64 years of age	438	5572.0	944	5363.6	55.3 (49.9; 60.2)
65 years and older	46	1113.6	123	1076.6	63.8 (48.9; 74.8)
75 years and older	9	198.2	15	170.9	48.3 (-26.1; 80.1)
Severe COVID-19	56	6774.6	205	6625.2	73.3 (63.9; 80.5)
18 to 64 years of age	46	5653.8	175	5531.4	74.3 (64.2; 81.8)
65 years and older	10	1120.8	30	1093.8	67.5 (31.6; 85.8)
75 years and older	2	199.4	6	172.4	71.2 (-61.2; 97.2)
28 days post-vaccination					
Symptomatic COVID-19	433	6658.4	883	6400.4	52.9 (47.1; 58.1)
18 to 64 years of age	393	5549.9	790	5330.5	52.2 (46.0; 57.8)
65 years and older	40	1108.5	93	1069.9	58.5 (39.3; 72.1)
75 years and older	9	196.0	10	169.3	22.3 (-112.8; 72.1)
Severe COVID-19	46	6733.8	176	6542.1	74.6 (64.7; 82.1)
18 to 64 years of age	38	5619.2	150	5460.5	75.4 (64.7; 83.2)
65 years and older	8	1114.6	26	1081.6	70.1 (32.1; 88.3)
75 years and older	2	197.2	5	170.1	65.5 (-110.7; 96.7)

<sup>a</sup> Symptomatic COVID-19 requiring positive RT-PCR result and at least 1 respiratory sign or symptom or 2 other systemic signs or symptoms, as defined in the protocol.

<sup>b</sup> Final determination of severe COVID-19 cases was made by an independent adjudication committee, who also assigned disease severity according to the definition per FDA guidance.

<sup>c</sup> Co-primary endpoint as defined in the protocol.

<sup>d</sup> Per-protocol efficacy population

Beyond 14 days after vaccination, 18 vs. 74 cases of molecularly confirmed COVID-19 were hospitalised, respectively in the JCOVDEN vs. placebo group, resulting in 76.1% (adjusted 95% CI: 56.9; 87.7) vaccine efficacy. A total of 5 cases in the JCOVDEN group vs. 17 cases in the placebo group required Intensive Care Unit (ICU) admission and 4 vs. 8 cases in the JCOVDEN and placebo group respectively required mechanical ventilation.

Vaccine efficacy against asymptomatic infections at least 28 days after vaccination was 28.9% (95% CI: 20.0; 36.8) and against all SARS-CoV-2 infections was 41.7% (95% CI: 36.3; 46.7).

Subgroup analyses of the primary efficacy endpoint showed similar efficacy point estimates for male and female participants, as well as for participants with and without medical comorbidities associated with high risk of severe COVID-19.

A summary of vaccine efficacy by variant strain is presented in Table 5 below:

**Table 5: Summary of vaccine efficacy against symptomatic<sup>a</sup> and severe<sup>b</sup> COVID-19 by variant strain following a single-dose**

Variant	Onset	Severity	
		Symptomatic COVID-19 % Vaccine Efficacy (95% CI)	Severe COVID-19 % Vaccine Efficacy (95% CI)
Reference	At least 14 days after vaccination	71.5% (57.3; 81.4)	89.7% (57.3; 98.8)
	At least 28 days after vaccination	58.2% (35.0; 73.7)	93.1% (54.4; 99.8)
Alpha (B.1.1.7)	At least 14 days after vaccination	70.1% (35.1; 87.6)	51.1% (-241.2; 95.6)
	At least 28 days after vaccination	70.2% (35.3; 87.6)	51.4% (-239.0; 95.6)
Beta (B.1.351)	At least 14 days after vaccination	38.1% (4.2; 60.4)	70.2% (28.4; 89.2)
	At least 28 days after vaccination	51.9% (19.1; 72.2)	78.4% (34.5; 94.7)
Gamma (P.1)	At least 14 days after vaccination	36.4% (13.9; 53.2)	63.3% (18.3; 85.0)
	At least 28 days after vaccination	36.5% (14.1; 53.3)	63.6% (18.8; 85.1)
Zeta (P.2)	At least 14 days after vaccination	64.8% (47.3; 77.0)	91.1% (38.8; 99.8)
	At least 28 days after vaccination	64.1% (42.5; 78.3)	87.9% (9.4; 99.7)
Mu (B.1.621)	At least 14 days after vaccination	35.8% (1.5; 58.6)	79.4% (38.1; 94.9)
	At least 28 days after vaccination	35.9% (1.7; 58.7)	79.5% (38.5; 94.9)
Lambda (C.37)	At least 14 days after vaccination	10.0% (-39.5; 42.0)	67.4% (-30.6; 94.3)
	At least 28 days after vaccination	10.1% (-39.2; 42.1)	67.6% (-29.8; 94.4)
Delta (B.1.617.2/AY.1/AY.2)	At least 14 days after vaccination	-6.0% (-178.3; 59.2)	NE*
	At least 28 days after vaccination	-5.7% (-177.7; 59.2)	NE*
Other	At least 14 days after vaccination	73.2% (65.4; 79.4)	81.4% (59.8; 92.5)
	At least 28 days after vaccination	69.0% (59.1; 76.8)	75.7% (46.2; 90.3)

<sup>a</sup> Symptomatic COVID-19 requiring positive RT-PCR result and at least 1 respiratory sign or symptom or 2 other systemic signs or symptoms, as defined in the protocol.

<sup>b</sup> Final determination of severe COVID-19 cases was made by an independent adjudication committee, who also assigned disease severity according to the definition per FDA guidance.

\* If less than 6 cases are observed for an endpoint then the VE will not be shown. NE = not estimable.

## Efficacy of two-doses of JCOVDEN administered 2 months apart

A final analysis (cut-off date 25 June 2021) of a multicenter, randomised, double-blind, placebo-controlled Phase 3 study (COV3009) was conducted in North and Latin America, Africa, Europe and Asia to assess the efficacy, safety, and immunogenicity of 2 doses of JCOVDEN administered with a 56-day interval. The study excluded individuals with abnormal function of the immune system resulting from a clinical condition, individuals who were under immunosuppressive therapies within 6 months, as well as pregnant women. Participants with stable HIV infection under treatment were not excluded. Licensed vaccines, excluding live vaccines, could be administered more than 14 days before or more than 14 days after the vaccination in the study. Licensed live attenuated vaccines could be administered more than 28 days before or more than 28 days after the vaccination in the study.

A total of 31300 individuals were randomised in the double-blind phase of the study. In total, 14492 (46.3%) individuals were included in the per-protocol efficacy population (7484 individuals received JCOVDEN and 7008 individuals received placebo). Participants were followed for a median of 36 days (range: 0-172 days) after vaccination.

Demographic and baseline characteristics were similar among individuals who received at least two doses of JCOVDEN and those who received placebo. In the primary efficacy analysis population, among the individuals who received 2 doses of JCOVDEN, the median age was 50.0 years (range: 18 to 99 years); 87.0% (N=6512) of individuals were 18 to 64 years old [with 13.0% (N=972) aged 65 or older and 1.9% (N=144) aged 75 or older]; 45.4% of individuals were female; 37.5% were from North America (United States), 51.0% were from Europe (including UK), 5.4% were from South Africa, 1.9% from Philippines and 4.2% from Latin America. A total of 2747 (36.7%) individuals had at least one pre-existing comorbidity associated with increased risk of progression to severe COVID-19 at baseline. Comorbidities included: obesity defined as BMI  $\geq 30$  kg/m<sup>2</sup> (24.6%), hypertension (8.9%), sleep apnea (6.7%), type 2 diabetes (5.2%), serious heart conditions (3.6%), asthma (1.7%) and stable/well-controlled HIV infection (1.3%). Other comorbidities were present in  $\leq 1\%$  of the individuals.

Vaccine efficacy against symptomatic COVID-19 and severe COVID-19 is presented in Table 6 below:

**Table 6: Analysis of vaccine efficacy against symptomatic<sup>a</sup> and severe<sup>b</sup> COVID-19 – 14 days post-booster dose (second dose)**

Endpoint	JCOVDEN N=7484 <sup>c</sup>		Placebo N=7008 <sup>c</sup>		% Vaccine Efficacy (95% CI) <sup>d</sup>
	COVID-19 Cases (n)	Person-Years	COVID-19 Cases (n)	Person-Years	
Symptomatic COVID-19	14	1730.0	52	1595.0	75.2 (54.6; 87.3)
Severe COVID-19	0	1730.7	8 <sup>e</sup>	1598.9	100 (32.6; 100.0)

<sup>a</sup> Symptomatic COVID-19 requiring positive RT-PCR result and at least 1 respiratory sign or symptom or 2 other systemic signs or symptoms, as defined in the protocol.

<sup>b</sup> Final determination of severe COVID-19 cases was made by an independent adjudication committee, who also assigned disease severity according to the definition per FDA guidance.

<sup>c</sup> Per-protocol efficacy population.

<sup>d</sup> Confidence intervals were adjusted to implement type I error control for multiple testing.

<sup>e</sup> Of the 8 participants with severe disease, 1 was admitted to an intensive care unit.

Final analysis results of variants with sufficient cases available for meaningful interpretations (Alpha [B.1.1.7] and Mu [B.1.621]) show that, after the first dose of JCOVDEN, efficacy 14 days post-dose 1 (Day 15-Day 56) for these 2 variants was 73.2% [95% CI: 48.4; 87.1] and 38.6% [95% CI: -43.9; 75.1], respectively. After the second dose ( $\geq 71$  days), efficacy for Alpha and Mu was 83.7% [95% CI: 43.8; 97.0] and 53.9% [95% CI: -48.0; 87.6], respectively. There were only 7 Delta cases (4 and 3 Delta cases in the JCOVDEN group and placebo group, respectively). There were no reference strain

cases in either the JCOVDEN or placebo group in the follow-up 14 days after the booster dose ( $\geq 71$  days).

Vaccine efficacy against asymptomatic infections at least 14 days after second vaccination was 34.2% (95% CI: -6.4; 59.8).

#### *Immunogenicity of a booster dose (second dose) following primary vaccination with JCOVDEN*

It should be noted that there is no established immune correlate of protection. In a Phase 2 Study (COV2001), individuals 18 through 55 years of age and 65 years and older received a booster dose of JCOVDEN approximately 2 months after the primary vaccination. Immunogenicity was assessed by measuring neutralising antibodies to SARS-CoV-2 Victoria/1/2020 strain using a qualified wild-type virus neutralisation assay (wtVNA). Immunogenicity data are available from 39 individuals, of whom 15 were 65 years of age and older, and are summarised in Table 7.

**Table 7: SARS-CoV-2 Neutralisation Wild Type VNA-VICTORIA/1/2020\* (IC50), Study COV2001 Group 1, Per-Protocol Immunogenicity Set\*\***

	<b>Baseline (Day 1)</b>	<b>28 Days Post- Primary Vaccination (Day 29)</b>	<b>Pre-Booster Dose (Day 57)</b>	<b>14 Days Post- Booster Dose (Day 71)</b>	<b>28 Days Post- Booster Dose (Day 85)</b>
N	38	39	39	39	38
Geometric mean titre (95% CI)	<LLOQ (<LLOQ, <LLOQ)	260 (196; 346)	212 (142; 314)	514 (357; 740)	424 (301; 597)
Geometric mean fold increase (95% CI) from pre-booster	n/a	n/a	n/a	2.3 (1.7; 3.0)	1.8 (1.4; 2.4)

LLOQ = lower limit of quantification

\* Victoria/1/2020 strain is considered as reference strain

\*\* PPI set: The per-protocol immunogenicity population includes all randomised and vaccinated individuals for whom immunogenicity data are available excluding individuals with major protocol deviations expected to impact the immunogenicity outcomes. In addition, samples obtained after missed vaccinations or individuals with natural SARS-CoV-2 infection occurring after screening (if applicable) were excluded from the analysis.

Neutralising antibody (wtVNA) and S-binding antibody (enzyme-linked immunosorbent assay) increases against the reference SARS-CoV-2 strain were also observed in studies COV1001, COV1002 and COV2001 in a limited number of study participants after a boost given at 2, 3 and 6 months, when compared to pre-boost values. Overall, the increases of geometric mean titres (GMTs) pre-boost to 1 month post-boost ranged from 1.5 to 4.4 fold for neutralising antibodies, and from 2.5 to 5.8 fold for binding antibodies. A 2-fold decrease in antibody levels was observed 4 months following 2-month booster dose, compared to 1 month following 2-month booster dose. Antibody levels were still higher than antibody levels following a single-dose at a similar timepoint. These data support the administration of a booster dose when administered at an interval of 2 months or longer after primary vaccination.

#### *Immunogenicity of a booster dose following primary vaccination with an mRNA COVID-19 vaccine*

COV-BOOST study is a multicentre, randomised Phase 2 investigator-initiated study (NCT73765130) conducted in the United Kingdom, to evaluate a booster vaccination against COVID-19. Participants were adults aged 30 years or older. A cohort of participants received two doses of Comirnaty (N=89), followed by a booster dose of JCOVDEN. The median interval (IQR) was 106 (91-144) days between the second and booster dose. JCOVDEN boosted binding (N=88), pseudovirus neutralising (N=77) and wild type neutralising antibody responses (N=21) against the reference strain, as observed at Day 28. At Day 84 post-boost, GMTs were still higher than pre-boost values. Furthermore, JCOVDEN boosted pseudovirus neutralising antibody responses against the Delta variant assessed at Day 28 (N=89).

DMID 21-0012, an independent Phase 1/2 open-label clinical study (NCT04889209) conducted in the United States evaluated a heterologous booster dose of JCOVDEN. Due to the limited sample size, differences observed are only descriptive. A booster dose of JCOVDEN was administered to adults who had completed primary vaccination with a Spikevax 2-dose series or a Comirnaty 2-dose series at least 12 weeks prior to enrolment (mean interval [range] of 20 [13-26] and 21 [12-41] weeks for Spikevax and Comirnaty, respectively) and who reported no history of SARS-CoV-2 infection. JCOVDEN boosted binding and pseudovirus neutralising antibody responses against the reference strain and the Delta variant in individuals primed with Spikevax 2-dose series (N=49) or Comirnaty 2-dose series (N=50), as observed at Day 15 post-boost. JCOVDEN boosted pseudovirus neutralising antibody responses against the Omicron BA.1 variant in individuals primed with Comirnaty 2-dose series (N=50), as observed at Day 29.

#### *Immunogenicity of a booster dose following primary vaccination with an adenoviral vector-based COVID-19 vaccine*

COV-BOOST study (see study design above) also evaluated a booster dose of JCOVDEN in participants who had received 2 doses of Vaxzevria (N=101). The median interval (IQR) was 77 (72-83) days between the second and booster dose. JCOVDEN boosted binding (N=94), pseudovirus neutralising (N=94) and wild type neutralising antibody responses (N=21) against the reference strain. At Day 84 post-boost, GMTs were still higher than pre-boost values. Furthermore, JCOVDEN boosted pseudovirus neutralising antibody responses against the Delta variant assessed at Day 28 (N=90).

Descriptive data from the COV-BOOST study and DMID 21-0012 study indicate that boosting with JCOVDEN after primary vaccination with an adenoviral vector-based vaccine induces lower antibody responses compared to heterologous boosting with a licensed mRNA vaccine after primary vaccination with an adenoviral vector-based vaccine. The studies also indicate that neutralising antibody titres reached at 1 month post-boost with JCOVDEN after primary vaccination with an mRNA vaccine are comparable to after a homologous boost with an mRNA vaccine.

#### Elderly population

JCOVDEN was assessed in individuals 18 years of age and older. The efficacy of JCOVDEN was consistent between elderly ( $\geq 65$  years) and younger individuals (18-64 years).

#### Paediatric population

The European Medicines Agency has deferred the obligation to submit the results of studies with JCOVDEN 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**

Non-clinical data reveal no special hazards for humans based on conventional studies of repeat-dose toxicity and local tolerance, and reproductive and developmental toxicity.

#### Genotoxicity and carcinogenicity

JCOVDEN has not been evaluated for its genotoxic or carcinogenic potential. The components of the vaccine are not expected to have genotoxic or carcinogenic potential.

## Reproductive toxicity and fertility

Female reproductive toxicity and fertility were assessed in a combined embryo-foetal and pre- and post-natal development study in the rabbit. In this study a first vaccination of JCOVDEN was administered intramuscularly to female rabbits 7 days prior to mating, at a dose equivalent to 2-fold above the recommended human dose, followed by two vaccinations at the same dose during the gestation period (i.e., at gestational days 6 and 20). There were no vaccine-related effects on female fertility, pregnancy, or embryo-foetal or offspring development. The parental females as well as their foetuses and offspring exhibited SARS-CoV-2 S protein-specific antibody titres, indicating that maternal antibodies were transferred to the foetuses during gestation. No JCOVDEN data are available on vaccine excretion in milk.

In addition, a conventional (repeat-dose) toxicity study in rabbits with JCOVDEN did not reveal any effects on male sex organs that would impair male fertility.

## **6. PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

#### 10 vial pack

2-hydroxypropyl- $\beta$ -cyclodextrin (HBCD)  
Citric acid monohydrate  
Ethanol  
Hydrochloric acid  
Polysorbate-80  
Sodium chloride  
Sodium hydroxide  
Trisodium citrate dihydrate  
Water for injections

#### 20 vial pack

2-hydroxypropyl- $\beta$ -cyclodextrin (HBCD)  
Citric acid monohydrate  
Ethanol  
Hydrochloric acid  
Polysorbate-80  
Sodium chloride  
Sodium hydroxide  
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

2 years when stored at -25°C to -15°C.

Once removed from the freezer, the unopened vaccine may be stored refrigerated at 2°C to 8°C, protected from light, for a single period of up to 11 months, not exceeding the printed expiry date (EXP).

Once thawed, the vaccine should not be re-frozen.



For special precautions for storage, see section 6.4.

#### Opened vial (after first puncture of the vial)

Chemical and physical in-use stability, including during transportation, of the vaccine has been demonstrated for 6 hours at 2°C to 25°C. From a microbiological point of view, the product should preferably be used immediately after first puncture of the vial; however, the product can be stored between 2°C to 8°C for a maximum of 6 hours or remain at room temperature (maximally 25°C) up to 3 hours after first puncture of the vial. Beyond these times, in-use storage is the responsibility of the user.

### **6.4 Special precautions for storage**

Store and transport frozen at -25°C to -15°C. The expiry date for storage at -25°C to -15°C is printed on the vial and outer carton after “EXP”.

When stored frozen at -25°C to -15°C, the vaccine can be thawed either at 2°C to 8°C or at room temperature:

- at 2°C to 8°C: a carton of 10 or 20 vials will take approximately 13 hours to thaw, and a single vial will take approximately 2 hours to thaw.
- at room temperature (maximally 25°C): a carton of 10 or 20 vials will take approximately 4 hours to thaw, and a single vial will take approximately 1 hour to thaw.

The vaccine can also be stored in a refrigerator or transported at 2°C to 8°C for a single period of up to 11 months, not exceeding the original expiry date (EXP). Upon moving the product to 2°C to 8°C storage, the updated expiry date must be written on the outer carton and the vaccine should be used or discarded by the updated expiry date. The original expiry date should be crossed out. The vaccine can also be transported at 2°C to 8°C as long as the appropriate storage conditions (temperature, time) are applied.

Once thawed, the vaccine cannot be re-frozen.

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

Unopened JCOVDEN is stable for a total of 12 hours at 9°C to 25°C. It is not a recommended storage or shipping condition but may guide decisions for use in case of temporary temperature excursions during the 11 month storage at 2°C to 8°C.

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

### **6.5 Nature and contents of container**

A 2.5 mL suspension in a multi-dose vial (type I glass) with a rubber stopper (chlorobutyl with fluoropolymer coated surface), aluminium crimp and blue plastic cap. Each vial contains 5 doses of 0.5 mL.

Pack sizes of 10 or 20 multi-dose vials.

Not all pack sizes may be marketed.

### **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.

- The vaccine comes ready to use once thawed.
- The vaccine may be supplied frozen at  $-25^{\circ}\text{C}$  to  $-15^{\circ}\text{C}$  or thawed at  $2^{\circ}\text{C}$  to  $8^{\circ}\text{C}$ .
- Do not re-freeze vaccine once thawed.
- Keep the vials in the original carton in order to protect from light and to record the expiry for the different storage conditions, if applicable.

#### a. Storage upon receipt of vaccine

**IF YOU RECEIVE YOUR VACCINE FROZEN AT  $-25^{\circ}\text{C}$  to  $-15^{\circ}\text{C}$  you may:**



OR



##### Store in a freezer

- The vaccine can be stored and transported frozen at  $-25^{\circ}\text{C}$  to  $-15^{\circ}\text{C}$ .
- The expiry date for storage is printed on the vial and outer carton after "EXP" (see section 6.4).

##### Store in a refrigerator

- The vaccine can also be stored and transported at  $2^{\circ}\text{C}$  to  $8^{\circ}\text{C}$  for a single period of **up to 11 months**, not exceeding the original expiry date (EXP).
- Upon moving the product **to a refrigerator at  $2^{\circ}\text{C}$  to  $8^{\circ}\text{C}$** , the updated expiry date must be written on the outer carton and the vaccine should be used or discarded by the updated expiry date. **The original expiry date should be crossed out** (see section 6.4).

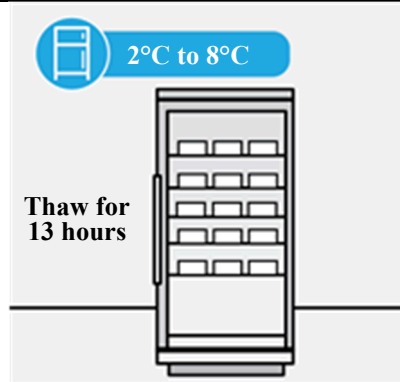
**IF YOU RECEIVE YOUR VACCINE THAWED AT  $2^{\circ}\text{C}$  to  $8^{\circ}\text{C}$  you should store in a refrigerator:**



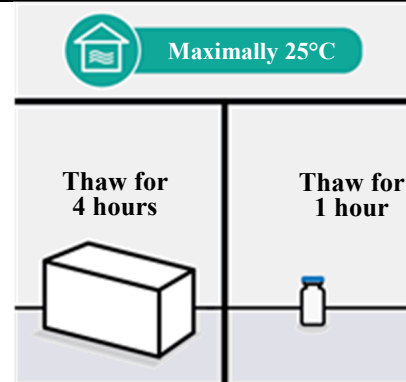
**Do not** re-freeze if the product is received already thawed at  $2^{\circ}\text{C}$  to  $8^{\circ}\text{C}$ .

**Note:** If the vaccine is received refrigerated at  $2^{\circ}\text{C}$  to  $8^{\circ}\text{C}$ , check that the expiry date has been updated by the local supplier upon receipt. If you cannot find the new EXP date, contact the local supplier to confirm the refrigerated EXP date. Write the **new expiry date** on the outer carton before the vaccine is stored in the refrigerator. **The original expiry date should be crossed out** (see section 6.4).

**b. If stored frozen, thaw vial(s) either in a refrigerator or at room temperature before administration**



OR




**Thaw in refrigerator**

- When stored frozen at  $-25^{\circ}\text{C}$  to  $-15^{\circ}\text{C}$ , a carton of 10 or 20 vials will take approximately 13 hours to thaw or individual vials will take approximately 2 hours to thaw at  $2^{\circ}\text{C}$  to  $8^{\circ}\text{C}$ .
- If the vaccine is not used immediately, refer to the instructions in section 'Store in a refrigerator'.
- The vial must be kept in the original carton in order to protect from light and to record the expiry for the different storage conditions, if applicable.

 Do not re-freeze once thawed.

**Thaw at room temperature**

- When stored frozen at  $-25^{\circ}\text{C}$  to  $-15^{\circ}\text{C}$ , a carton of 10 or 20 vials or individual vials should be thawed at room temperature maximally  $25^{\circ}\text{C}$ .
- A carton of 10 or 20 vials will take approximately **4 hours** to thaw.
- Individual vials will take approximately **1 hour** to thaw.
- The vaccine is stable for a total of **12 hours** at  $9^{\circ}\text{C}$  to  $25^{\circ}\text{C}$ . It is not a recommended storage or shipping condition but may guide decisions for use in case of temporary temperature excursions.
- If the vaccine is not used immediately, refer to the instructions in section Store in a refrigerator.

 Do not re-freeze once thawed.

**c. Inspect vial and vaccine**

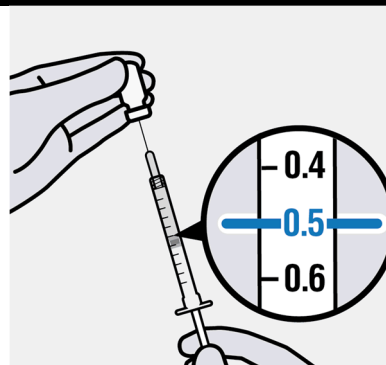
- JCOVDEN is a colorless to slightly yellow, clear to very opalescent suspension (pH 6-6.4).
- The vaccine should be inspected visually for particulate matter and discoloration prior to administration.
- The vial should be inspected visually for cracks or any abnormalities, such as evidence of tampering prior to administration.

If any of these should exist, do not administer the vaccine.

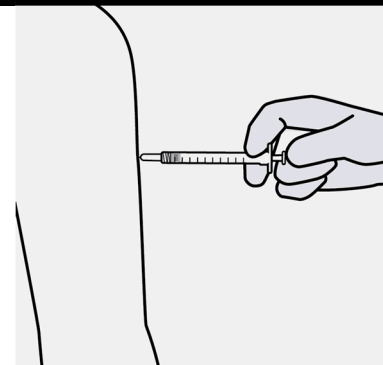
**d. Prepare and administer vaccine**



Swirl the vial gently




Withdraw 0.5 mL

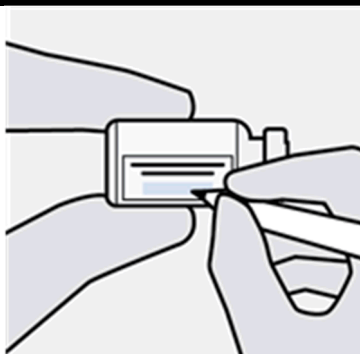


Inject 0.5 mL

- Before administering a dose of vaccine, swirl the vial gently **in an upright position for 10 seconds**.
- **Do not** shake.
- Use a sterile needle and sterile syringe to extract a single-dose of **0.5 mL** from the multi-dose vial (see section 4.2).
- Administer by **intramuscular injection only** into the deltoid muscle of the upper arm (see section 4.2).


 **A maximum of 5 doses can be withdrawn from the multi-dose vial.** Discard any remaining vaccine in the vial after 5 doses have been extracted.

#### e. Storage after first puncture



**Record date and time the vial should be discarded**

- After first puncture of the vial record the date and time the vial should be discarded on each vial label.

 Preferably, use immediately after first puncture.



- After the first puncture of the vial, the vaccine can be held at **2°C to 8°C** for **up to 6 hours**.
- Discard if vaccine is not used within this time.

OR



- After the first puncture of the vial, the vaccine can be held at **room temperature (maximally 25°C)** for a single period of **up to 3 hours**. (see section 6.3).
- Discard if vaccine is not used within this time.

#### f. Disposal

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

### 7. MARKETING AUTHORISATION HOLDER

Janssen-Cilag International NV  
Turnhoutseweg 30  
B-2340 Beerse  
Belgium

### 8. MARKETING AUTHORISATION NUMBER(S)

EU/1/20/1525/001  
EU/1/20/1525/002

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

Date of first authorisation: 11 March 2021

Date of latest renewal: 03 January 2022

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

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

## **ANNEX II**

- A. MANUFACTURERS OF THE BIOLOGICAL ACTIVE  
SUBSTANCE AND MANUFACTURERS 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. MANUFACTURERS OF THE BIOLOGICAL ACTIVE SUBSTANCE AND  
MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE**

Name and address of the manufacturers of the biological active substance

Janssen Biologics B.V.  
Einsteinweg 101  
2333 CB Leiden  
The Netherlands

Emergent Manufacturing  
Operations Baltimore LLC  
5901 East Lombard Street  
Baltimore, MD 21224  
United States (USA)

Biological E. Limited  
Plot No. 1, Biotech Park, Phase II  
Kolthur Village, Shameerpet  
Medchal-Malkajgiri District,  
Telangana-500078  
India

Name and address of the manufacturers responsible for batch release

Janssen Biologics B.V.  
Einsteinweg 101  
2333 CB Leiden  
The Netherlands

Janssen Pharmaceutica NV  
Turnhoutseweg 30  
2340 Beerse  
Belgium

The printed package leaflet of the medicinal product must state the name and address of the manufacturer responsible for the release of the concerned batch.

**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 being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.



**ANNEX III**  
**LABELLING AND PACKAGE LEAFLET**

## **A. LABELLING**

## **PARTICULARS TO APPEAR ON THE OUTER PACKAGING**

### **CARTON**

#### **1. NAME OF THE MEDICINAL PRODUCT**

JCOVDEN suspension for injection  
COVID-19 vaccine (Ad26.COV2-S [recombinant])

#### **2. STATEMENT OF ACTIVE SUBSTANCE(S)**

One dose (0.5 mL) contains not less than 8.92 log<sub>10</sub> infectious units

Adenovirus type 26 encoding the SARS-CoV-2 spike glycoprotein (Ad26.COV2-S)

This medicine contains genetically modified organisms.

#### **3. LIST OF EXCIPIENTS**

##### **10 vial pack**

Excipients: 2-hydroxypropyl-β-cyclodextrin, citric acid monohydrate, ethanol, hydrochloric acid, polysorbate-80, sodium chloride, sodium hydroxide, trisodium citrate dihydrate, water for injections. See leaflet for further information.

##### **20 vial pack**

Excipients: 2-hydroxypropyl-β-cyclodextrin, citric acid monohydrate, ethanol, hydrochloric acid, polysorbate-80, sodium chloride, sodium hydroxide, water for injections. See leaflet for further information.

#### **4. PHARMACEUTICAL FORM AND CONTENTS**

Suspension for injection

10 multi-dose vials

20 multi-dose vials

Each vial contains 5 doses of 0.5 mL

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

Intramuscular use

Read the package leaflet before use

For more information, scan this QR code or go to [www.covid19vaccinejanssen.com](http://www.covid19vaccinejanssen.com).



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

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

**8. EXPIRY DATE**

See EXP for expiry date at -25°C to -15°C.

Write new expiry date at 2°C to 8°C (max 11 months): \_\_\_\_\_. Cross out former expiry date.

**9. SPECIAL STORAGE CONDITIONS**

Store and transport frozen at -25°C to -15°C.

Can also be stored at 2°C to 8°C for 11 months. Write new expiry date.

Do not refreeze once thawed.

Keep the vials in the original carton to protect from light.

For additional information on shelf-life and storage, see 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**

Janssen-Cilag International NV  
Turnhoutseweg 30  
B-2340 Beerse  
Belgium

**12. MARKETING AUTHORISATION NUMBER(S)**

EU/1/20/1525/001

EU/1/20/1525/002

**13. BATCH NUMBER**

Lot

**14. GENERAL CLASSIFICATION FOR SUPPLY**

<b>15. INSTRUCTIONS ON USE</b>
--------------------------------

<b>16. INFORMATION IN BRAILLE</b>
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Justification for not including Braille accepted.

<b>17. UNIQUE IDENTIFIER – 1D &amp; 2D BARCODE</b>
--

2D barcode carrying the unique identifier included.

<b>18. UNIQUE IDENTIFIER - HUMAN READABLE DATA</b>
--

PC  
SN  
NN

**MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS  
MULTI-DOSE VIAL LABEL (5 DOSES OF 0.5 ML)**

**1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION**

JCOVDEN injection  
COVID-19 vaccine (Ad26.COV2-S [recombinant])  
IM

**2. METHOD OF ADMINISTRATION**

Intramuscular use

**3. EXPIRY DATE**

EXP

**4. BATCH NUMBER**

Lot

**5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT**

5 doses of 0.5 mL

**6. OTHER**

Discard date/time

## **B. PACKAGE LEAFLET**

## **Package leaflet: Information for the user**

### **JCOVDEN suspension for injection** COVID-19 vaccine (Ad26.COV2-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 you are vaccinated 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 JCOVDEN is and what it is used for
2. What you need to know before you are given JCOVDEN
3. How JCOVDEN is given
4. Possible side effects
5. How to store JCOVDEN
6. Contents of the pack and other information

#### **1. What JCOVDEN is and what it is used for**

JCOVDEN is a vaccine used for preventing COVID-19 caused by the SARS-CoV-2 virus.

JCOVDEN 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 JCOVDEN**

##### **Do not have the vaccine if**

- You are allergic to the active substance or any of the other ingredients of this vaccine (listed in section 6).
- 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 any COVID-19 vaccine.
- 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 JCOVDEN if:

- you have ever had a severe allergic reaction after injection of any other vaccine,
- you have ever fainted following any needle injection,
- 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,
- you have a problem with bleeding or bruising, or if you are taking an anticoagulant medicine (to prevent blood clots),



- 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),
- you have risk factors for blood clots in your veins (venous thromboembolism (VTE)).

As with any vaccine, vaccination with JCOVDEN may not fully protect all those who receive it. It is not known how long you will be protected.

### **Blood disorders**

- ***Venous thromboembolism:*** Blood clots in veins (venous thromboembolism (VTE)) have been observed rarely following vaccination with JCOVDEN.
- ***Thrombosis with thrombocytopenia syndrome:*** A combination of blood clots and low levels of ‘platelets’ in the blood has been observed very rarely following vaccination with JCOVDEN. This includes severe cases with blood clots, including in unusual locations, such as the brain, liver, bowel and spleen in some cases in combination with bleeding. These cases mostly occurred within the first three weeks following vaccination and in individuals below 60 years of age. Fatal outcome has been reported.
- ***Immune thrombocytopenia:*** 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 JCOVDEN.

Seek immediate medical attention, if you experience symptoms that may be signs of blood disorders: severe or persistent headaches, seizures (fits), mental status changes or blurred vision, unexplained bleeding, unexplained skin bruising beyond the site of vaccination which appear a few days after vaccination, pinpoint round spots beyond the site of vaccination, develop shortness of breath, chest pain, leg pain, leg swelling, or persistent abdominal pain. Inform your healthcare provider that you have recently received JCOVDEN.

### **Capillary leak syndrome**

Very rare cases of capillary leak syndrome (CLS) have been reported following vaccination with JCOVDEN. At least one affected patient 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 disorders**

- ***Guillain-Barré syndrome***  
Seek immediate medical attention if you develop weakness and paralysis in the extremities that can progress to the chest and face (Guillain-Barré syndrome, GBS). This has been reported very rarely after vaccination with JCOVDEN.
- ***Inflammation of the spinal cord (transverse myelitis)***  
Seek immediate medical attention if you develop weakness in the arms or legs, sensory symptoms (such as tingling, numbness, pain or loss of pain sensation) or problems with bladder or bowel function. This has been reported very rarely after vaccination with JCOVDEN.

### **Myocarditis and pericarditis**

There is an increased risk of myocarditis (inflammation of the heart muscle) and pericarditis (inflammation of the lining outside the heart) after vaccination with JCOVDEN (see section 4). These conditions have occurred more often in males less than 40 years of age. In most of these people, symptoms began within 14 days following vaccination. You should seek medical attention right away if you have any of the following symptoms after receiving the vaccine: chest pain; shortness of breath; feelings of having a fast-beating, fluttering, or pounding heart.

### **Risk of severe adverse events after a booster dose**

The risk of severe adverse events (such as blood disorders including thrombosis with thrombocytopenia syndrome, CLS, GBS, myocarditis and pericarditis) after a booster dose of JCOVDEN is unknown.

### **Children and adolescents**

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

### **Other medicines and JCOVDEN**

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

### **Pregnancy and breast-feeding**

If you are pregnant or breast-feeding, 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 JCOVDEN listed in section 4 (Possible side effects) may temporarily affect your ability to drive or use machines. Wait until these effects have worn off before you drive or use machines.

### **JCOVDEN contains sodium**

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

### **JCOVDEN contains ethanol**

This medicine contains 2 mg of alcohol (ethanol) in each dose of 0.5 mL. The amount of ethanol in this medicine is equivalent to less than 1 mL beer or wine. The small amount of alcohol in this medicine will not have any noticeable effects.

## **3. How JCOVDEN is given**

Your doctor, pharmacist or nurse will inject the vaccine into the muscle - usually in the upper arm.

### **How much vaccine will you receive**

A single-dose primary vaccination (0.5 mL) of JCOVDEN is injected.

A booster dose (second dose) of JCOVDEN may be given at least 2 months after the primary vaccination in individuals 18 years of age and older.

JCOVDEN may be administered as a single booster dose to eligible individuals 18 years of age and older who have completed primary vaccination with an mRNA COVID-19 vaccine or an adenoviral vector-based COVID-19 vaccine. The dosing interval for the booster dose is the same as that authorised for a booster dose of the vaccine used for primary vaccination.

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

If you have any further questions on the use of this vaccine, ask your doctor, pharmacist or nurse.

## **4. Possible side effects**

Like all vaccines, JCOVDEN can cause side effects, although not everybody gets them. Most of the side effects occur in the 1 or 2 days of getting the vaccination.

Get medical attention immediately if within 3 weeks of vaccination you get any of the following symptoms:

- experience severe or persistent headaches, blurred vision, mental status changes 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 can happen with this vaccine.

**Very common:** may affect more than 1 in 10 people

- headache
- nausea
- muscle aches
- pain where the injection is given
- feeling very tired

**Common:** may affect up to 1 in 10 people

- redness where the injection is given
- swelling where the injection is given
- chills
- fever

**Uncommon:** may affect up to 1 in 100 people

- rash
- joint pain
- muscle weakness
- arm or leg pain
- feeling weak
- feeling generally unwell
- cough
- sneezing
- sore throat
- back pain
- tremor
- diarrhoea
- vomiting
- dizziness

**Rare:** may affect up to 1 in 1000 people

- allergic reaction
- hives
- excessive sweating
- swollen lymph nodes (lymphadenopathy)
- unusual feeling in the skin, such as tingling or a crawling feeling (paraesthesia)

- decreased feeling or sensitivity, especially in the skin (hypoesthesia)
- persistent ringing in the ears (tinnitus)
- blood clots in veins (venous thromboembolism (VTE))
- temporary, usually one-sided facial drooping (including Bell's palsy)

**Very Rare:** may affect up to 1 in 10000 people

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

**Unknown** (cannot be estimated from the available data)

- severe allergic reaction
- capillary leak syndrome (a condition causing fluid leakage from small blood vessels)
- low levels of blood platelets (immune thrombocytopenia) that can be associated with bleeding (see section 2, 'Blood Disorders')
- inflammation of the spinal cord (transverse myelitis)
- inflammation of small blood vessels (small vessel vasculitis) with skin rash or small red or purple, flat, round spots under the skin's surface or bruising
- inflammation of the heart muscle (myocarditis) or inflammation of the lining outside the heart (pericarditis)

Tell your doctor, pharmacist or nurse if you have any side effects that bother you or do not go away.

### 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 Appendix V](#) and include batch/Lot number if available. By reporting side effects you can help provide more information on the safety of this medicine.

## 5. How to store JCOVDEN

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

Store vial in the original carton to protect from light.

Your doctor, pharmacist or nurse is responsible for storing this vaccine and disposing of any unused product correctly.

Store and transport frozen at -25°C to -15°C. The expiry date for storage at -25°C to -15°C is printed on the vial and outer carton after "EXP".

The vaccine comes ready to use once thawed. The vaccine may be supplied frozen at -25°C to -15°C or thawed at 2°C to 8°C.

When stored frozen at -25°C to -15°C, the vaccine can be thawed either at 2°C to 8°C or at room temperature:

- at 2°C to 8°C: a carton of 10 or 20 vials will take approximately 13 hours to thaw, and a single vial will take approximately 2 hours to thaw.
- at room temperature (maximally 25°C): a carton of 10 or 20 vials will take approximately 4 hours to thaw, and a single vial will take approximately 1 hour to thaw.

Do not re-freeze vaccine once thawed.

The vaccine can also be stored in a refrigerator or transported at 2°C to 8°C for a single period of up to 11 months, not exceeding the original expiry date (EXP). Upon moving the product to 2°C to 8°C

storage, the updated expiry date must be written on the outer carton and the vaccine should be used or discarded by the updated expiry date. The original expiry date should be crossed out. The vaccine can also be transported at 2°C to 8°C as long as the appropriate storage conditions (temperature, time) are applied.

## **6. Contents of the pack and other information**

### **What JCOVDEN contains**

- The active substance is Adenovirus type 26 encoding the SARS-CoV-2 spike glycoprotein\*(Ad26.COV2-S) not less than 8.92 log<sub>10</sub> infectious units (Inf.U) in each 0.5 mL dose.
  - \* Produced in the PER.C6 TetR Cell Line and by recombinant DNA technology.

This product contains genetically modified organisms (GMOs).

- The other ingredients (excipients) are:
  - 10 vial pack: 2-hydroxypropyl-β-cyclodextrin (HBCD), citric acid monohydrate, ethanol, hydrochloric acid, polysorbate-80, sodium chloride, sodium hydroxide, trisodium citrate dihydrate, water for injections (see section 2 JCOVDEN contains sodium and JCOVDEN contains ethanol).
  - 20 vial pack: 2-hydroxypropyl-β-cyclodextrin (HBCD), citric acid monohydrate, ethanol, hydrochloric acid, polysorbate-80, sodium chloride, sodium hydroxide, water for injections (see section 2 JCOVDEN contains sodium and JCOVDEN contains ethanol).

### **What JCOVDEN looks like and contents of the pack**

Suspension for injection (injection). The suspension is colorless to slightly yellow, clear to very opalescent suspension (pH 6-6.4).

2.5 mL suspension in a multi-dose vial (type I glass) with a rubber stopper, aluminium crimp and blue plastic cap. Each vial contains 5 doses of 0.5 mL.

JCOVDEN is available in a pack containing 10 or 20 multi-dose vials.

Not all pack sizes may be marketed.

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**This leaflet was last revised in**

Scan the QR code below (also available on the carton and QR card) to get the package leaflet in different languages.



Or visit the URL: [www.covid19vaccinejanssen.com](http://www.covid19vaccinejanssen.com)

**Other sources of information**

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

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:**

- As with all injectable vaccines, appropriate medical treatment and supervision must always be readily available in the event of an anaphylactic reaction following the administration of JCOVDEN. Individuals should be monitored by a healthcare professional after vaccination for at least 15 minutes.
- JCOVDEN must not be mixed with other medicinal products or diluted in the same syringe.
- JCOVDEN must not be administered by intravascular, intravenous, subcutaneous or intradermal injection under any circumstances.
- Immunisation should be carried out by intramuscular injection only, preferably in the deltoid muscle of the upper arm.

- Syncope (fainting) may occur with any injection, including JCOVDEN. Procedures should be in place to prevent injury from falling and to manage syncopal reactions.

### 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.

### Instructions for administration and handling

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

Store and transport frozen at -25°C to -15°C. The expiry date for storage at -25°C to -15°C is printed on the vial and outer carton after “EXP”.

The vaccine comes ready to use once thawed. The vaccine may be supplied frozen at -25°C to -15°C or thawed at 2°C to 8°C.

When stored frozen at -25°C to -15°C, the vaccine can be thawed either at 2°C to 8°C or at room temperature:

- at 2°C to 8°C: a carton of 10 or 20 vials will take approximately 13 hours to thaw, and a single vial will take approximately 2 hours to thaw.
- at room temperature (maximally 25°C): a carton of 10 or 20 vials will take approximately 4 hours to thaw, and a single vial will take approximately 1 hour to thaw.

Do not re-freeze vaccine once thawed.

The vaccine can also be stored in a refrigerator or transported at 2°C to 8°C for a single period of up to 11 months, not exceeding the original expiry date (EXP). Upon moving the product to 2°C to 8°C storage, the updated expiry date must be written on the outer carton and the vaccine should be used or discarded by the updated expiry date. The original expiry date should be crossed out. The vaccine can also be transported at 2°C to 8°C as long as the appropriate storage conditions (temperature, time) are applied.

Keep the vials in the original carton in order to protect from light and to record the expiry for the different storage conditions, if applicable.

JCOVDEN is a colorless to slightly yellow, clear to very opalescent suspension (pH 6-6.4). The vaccine should be inspected visually for particulate matter and discoloration prior to administration. The vial should be inspected visually for cracks or any abnormalities, such as evidence of tampering prior to administration. If any of these should exist, do not administer the vaccine.

Before administering a dose of vaccine, swirl the vial gently in an upright position for 10 seconds. Do not shake. Use a sterile needle and sterile syringe to extract a single-dose of 0.5 mL from the multi-dose vial and administer by intramuscular injection only into the deltoid muscle of the upper arm.

A maximum of 5 doses can be withdrawn from the multi-dose vial. Discard any remaining vaccine in the vial after 5 doses have been extracted.

After the first puncture of the vial the vaccine (vial) can be held at 2°C to 8°C for up to 6 hours or at room temperature (maximum 25°C) for a single period of up to 3 hours. Discard if vaccine is not used within this time. After the first puncture of the vial, record the date and time the vial should be discarded on each vial label.



## 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.