

## **WHO PRODUCT INFORMATION**

## 1. NAME OF THE MEDICINAL PRODUCT

Abrysvo powder and solvent for solution for injection

Respiratory syncytial virus vaccine (bivalent, recombinant)

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

After reconstitution, one dose (0.5 mL) contains:

|  |               |
|--|---------------|
| RSV subgroup A stabilised prefusion F antigen <sup>1,2</sup> | 60 micrograms |
|--|---------------|

|  |               |
|--|---------------|
| RSV subgroup B stabilised prefusion F antigen <sup>1,2</sup> | 60 micrograms |
|--|---------------|

(RSV antigens)

<sup>1</sup>glycoprotein F stabilised in the prefusion conformation

<sup>2</sup>produced in Chinese Hamster Ovary cells by recombinant DNA technology.

For the full list of excipients, see section 6.1.

## 3. PHARMACEUTICAL FORM

Powder and solvent for solution for injection.

The powder is white.

The solvent is a clear, colourless liquid.

## 4. CLINICAL PARTICULARS

### 4.1 Therapeutic indications

Abrysvo is indicated for:

- active immunisation of pregnant individuals for the prevention of lower respiratory tract disease caused by respiratory syncytial virus (RSV) in infants from birth through 6 months of age (see sections 4.2 and 5.1).
- active immunisation of individuals 18 years of age and older for the prevention of lower respiratory tract disease caused by RSV.

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

### 4.2 Posology and method of administration

#### Posology

##### Pregnant individuals

A single dose of 0.5 mL should be administered in the third trimester of pregnancy (28-36 weeks) (see sections 4.4 and 5.1).

##### Individuals 18 years of age and older

A single dose of 0.5 mL should be administered.

The need for revaccination has not been established.

#### Paediatric population

The safety and efficacy of Abrysvo in children (from birth to less than 18 years of age) have not yet been established. Limited data are available in pregnant adolescents and their infants (see section 5.1).

#### Method of administration

Abrysvo is for intramuscular injection into the deltoid region of the upper arm.

The vaccine should not be mixed with any other vaccines or medicinal products.

For instructions on reconstitution and handling of the medicinal product before administration, see section 6.6.

### **4.3 Contraindications**

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

### **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

Appropriate medical treatment and supervision should always be readily available in case of an anaphylactic event following the administration of the vaccine.

#### 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 procedures are in place to avoid injury from fainting.

#### Concurrent illness

Vaccination should be postponed in individuals suffering from an acute febrile illness. However, the presence of a minor infection, such as a cold, should not result in the deferral of vaccination.

#### Thrombocytopenia and coagulation disorders

Abrysvo should be given with caution to individuals with thrombocytopenia or any coagulation disorder since bleeding or bruising may occur following an intramuscular administration to these individuals.

#### Immunocompromised individuals

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

#### Individuals less than 24 weeks of gestation

Abrysvo has not been studied in pregnant individuals less than 24 weeks of gestation.

### Limitations of vaccine effectiveness

As with any vaccine, a protective immune response may not be elicited after vaccination.

### Excipient

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

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

Abrysvo can be administered concomitantly with:

- seasonal influenza vaccines, either standard dose adjuvanted or high dose unadjuvanted
- COVID-19 mRNA vaccines, with or without high dose unadjuvanted influenza vaccine administered concomitantly.

A minimum interval of two weeks is recommended between administration of Abrysvo and administration of a tetanus, diphtheria and acellular pertussis vaccine (Tdap). There were no safety concerns when Abrysvo was co-administered with Tdap in healthy non-pregnant women. Immune responses to RSV A, RSV B, diphtheria and tetanus on co-administration were non-inferior to those after separate administration. However, the immune responses to the pertussis components were lower on co-administration compared to separate administration and did not meet the criteria for non-inferiority. The clinical relevance of this finding is unknown.

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

### Pregnancy

Data on pregnant women (more than 4 000 exposed outcomes) indicate no malformative nor feto/neonatal toxicity.

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

In a phase 3 study (Study 1), maternal adverse events reported within 1 month after vaccination were similar in the Abrysvo group (14%) and the placebo group (13%).

No safety signals were detected in infants up to 24 months of age. The incidences of adverse events reported within 1 month after birth in infants were similar in the Abrysvo group (38%) and the placebo group (35%). Major birth outcomes assessed in the Abrysvo group compared to placebo included premature birth (207 (6%) and 172 (5%), respectively), low birth weight (186 (5%) and 158 (4%), respectively) and congenital anomalies (205 (6%) and 245 (7%), respectively).

### Breast-feeding

It is unknown whether Abrysvo is excreted in human milk. No adverse effects of Abrysvo have been shown in breastfed newborns of vaccinated mothers.

### Fertility

No human data on the effect of Abrysvo on fertility are available.

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

## 4.7 Effects on ability to drive and use machines

Abrysvo has no or negligible influence on the ability to drive and use machines.

## 4.8 Undesirable effects

### Summary of the safety profile

#### Pregnant individuals

In pregnant women at 24-36 weeks of gestation the most frequently reported adverse reactions were vaccination site pain (41%), headache (31%) and myalgia (27%). The majority of local and systemic reactions in maternal participants were mild to moderate in severity and resolved within 2-3 days of onset.

#### Individuals 18 years of age and older

In individuals 18 years of age and older the most frequently reported adverse reactions were fatigue (23%), headache (20%), vaccination site pain (19%) and myalgia (16%). The majority of reactions were mild to moderate in severity and resolved within 1-2 days of onset.

### Tabulated list of adverse reactions

The safety of administering a single dose of Abrysvo to pregnant women at 24-36 weeks of gestation (n=3 698) and to individuals 18 years of age and older (n=20 275) was evaluated in clinical trials.

Adverse reactions are listed according to the following frequency categories:

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  $< 1/1\,000$ );

Very rare ( $< 1/10\,000$ );

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

Adverse reactions reported are listed per system organ class, in decreasing order of seriousness.

**Table 1** Adverse reactions following administration of Abrysvo

| System organ class  | Adverse drug reactions<br>pregnant individuals $\leq 49$<br>years | Adverse drug reactions<br>individuals<br>$\geq 18$ years |
|---|---|--|
| Blood and lymphatic system disorders                        |   |  |
| Lymphadenopathy   | Rare  | Rare   |
| Immune system disorders                                     |   |  |
| Anaphylaxis   |   | Very rare  |
| Hypersensitivity<br>reactions (includes<br>rash, urticaria) | Rare  | Rare   |
| Nervous system disorders                                    |   |  |
| Headache  | Very common   | Very common  |
| Guillain-Barré<br>syndrome                                  |   | Very rare  |
| Musculoskeletal and connective tissue disorders             |   |  |
| Myalgia   | Very common   | Very common  |
| Arthralgia  |   | Common   |
| General disorders and administration site conditions        |   |  |
| Fatigue   |   | Very common  |
| Vaccination site pain                                       | Very common   | Very common  |

| System organ class         | Adverse drug reactions<br>pregnant individuals $\leq 49$<br>years | Adverse drug reactions<br>individuals<br>$\geq 18$ years |
|----------------------------|---|--|
| Vaccination site redness   | Common  | Common   |
| Vaccination site swelling  | Common  | Common   |
| Pyrexia                    |   | Uncommon   |
| Vaccination site pruritus  |   | Rare   |
| Vaccination site bruising  |   | Rare   |
| Vaccination site haematoma |   | Rare   |

#### 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 and include batch/lot number, if available.

### **4.9 Overdose**

Overdose with Abrysvo is unlikely due to its single dose presentation.

There is no specific treatment for an overdose with Abrysvo. 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, other viral vaccines; ATC code: J07BX05

#### Mechanism of action

Abrysvo contains two recombinant stabilised RSV prefusion F antigens representing subgroups RSV-A and RSV-B. Prefusion F is the primary target of neutralising antibodies that block RSV infection. Following intramuscular administration, the prefusion F antigens elicit an immune response, which protects against RSV-associated lower respiratory tract disease (LRTD).

In infants born to mothers who were vaccinated with Abrysvo, protection against RSV-associated LRTD is due to transplacental transfer of RSV neutralising antibodies. Adults 18 years of age and older are protected by active immunisation.

#### Clinical efficacy

##### *Infants from birth through 6 months of age by active immunisation of pregnant individuals*

Study 1 was a phase 3, multicentre, randomised (1:1), double-blind, placebo-controlled study to assess the efficacy of a single dose of Abrysvo in the prevention of RSV-associated LRTD in infants born to pregnant individuals vaccinated between weeks 24 and 36 of gestation. The need for revaccination with subsequent pregnancies has not been established.

RSV-associated LRTD was defined as a medically attended visit in individuals with a reverse transcription-polymerase chain reaction (RT-PCR) confirmation of RSV and with one or more of the following respiratory symptoms: fast breathing, low oxygen saturation ( $\text{SpO}_2 < 95\%$ ) and chest wall indrawing. Severe RSV-associated LRTD was defined as RSV-associated LRTD that additionally met at least one of the following criteria: very fast breathing, low oxygen saturation ( $\text{SpO}_2 < 93\%$ ), high-flow oxygen supplementation via nasal cannula or mechanical ventilation, ICU admission for  $> 4$  hours and/or failure to respond/unconscious.

In this study, 3 711 pregnant individuals with uncomplicated, singleton pregnancies were randomised to the Abrysvo group and 3 709 to placebo.

Vaccine efficacy (VE) was defined as the relative risk reduction of the endpoint in the Abrysvo group compared to the placebo group for infants born to pregnant individuals who received the assigned intervention. At the primary analysis, there were two primary efficacy endpoints, assessed in parallel, severe RSV-positive medically attended LRTD and RSV-positive medically attended LRTD, occurring within 90, 120, 150 or 180 days after birth.

Of the pregnant women who received Abrysvo, 65% were White, 20% were Black or African American and 29% were Hispanic/Latino. The median age was 29 years (range 16-45 years); 0.2% of participants were under 18 years of age and 4.3% were under 20 years of age. The median gestational age at vaccination was 31 weeks and 2 days (range 24 weeks and 0 days to 36 weeks and 4 days). The median infant gestational age at birth was 39 weeks and 1 day (range 27 weeks and 3 days to 43 weeks and 6 days).

Vaccine efficacy is presented in Tables 2 to 5.

**Table 2 Vaccine efficacy of Abrysvo against severe medically attended LRTD caused by RSV in infants from birth through 6 months of age by active immunisation of pregnant individuals – Study 1**

| Time period | Abrysvo<br>Number of cases<br>N=3 495 | Placebo<br>Number of cases<br>N=3 480 | VE %<br>(CI) <sup>a</sup> |
|-------------|---------------------------------------|---------------------------------------|---------------------------|
| 90 days     | 6                                     | 33                                    | 81.8 (40.6, 96.3)         |
| 120 days    | 12                                    | 46                                    | 73.9 (45.6, 88.8)         |
| 150 days    | 16                                    | 55                                    | 70.9 (44.5, 85.9)         |
| 180 days    | 19                                    | 62                                    | 69.4 (44.3, 84.1)         |

CI = confidence interval; VE = vaccine efficacy

<sup>a</sup> 99.5% CI at 90 days; 97.58% CI at later intervals

**Table 3 Vaccine efficacy of Abrysvo against medically attended LRTD caused by RSV in infants from birth through 6 months of age by active immunisation of pregnant individuals - Study 1**

| Time period | Abrysvo<br>Number of cases<br>N=3 495 | Placebo<br>Number of cases<br>N=3 480 | VE %<br>(CI) <sup>a</sup> |
|-------------|---------------------------------------|---------------------------------------|---------------------------|
| 90 days     | 24                                    | 56                                    | 57.1 (14.7, 79.8)         |
| 120 days    | 35                                    | 81                                    | 56.8 (31.2, 73.5)         |
| 150 days    | 47                                    | 99                                    | 52.5 (28.7, 68.9)         |
| 180 days    | 57                                    | 117                                   | 51.3 (29.4, 66.8)         |

CI = confidence interval; VE = vaccine efficacy

<sup>a</sup> 99.5% CI at 90 days; 97.58% CI at later intervals

**Table 4 Vaccine efficacy of Abrysvo against severe medically attended LRTD caused by RSV in infants from birth through 6 months of age by active immunisation of pregnant individuals between weeks 28 and 36 of gestation – Study 1<sup>a</sup>**

| Time period | Abrysvo<br>Number of cases<br>N=2 602 | Placebo<br>Number of cases<br>N=2 609 | VE %<br>(95% CI)  |
|-------------|---------------------------------------|---------------------------------------|-------------------|
| 90 days     | 2                                     | 22                                    | 90.9 (62.9, 99.0) |
| 120 days    | 5                                     | 31                                    | 83.8 (58.0, 95.1) |
| 150 days    | 6                                     | 38                                    | 84.2 (62.3, 94.5) |
| 180 days    | 8                                     | 43                                    | 81.3 (59.9, 92.4) |

CI = confidence interval; VE = vaccine efficacy

<sup>a</sup> Post-hoc descriptive subgroup analysis was not controlled for multiple comparisons.

**Table 5 Vaccine efficacy of Abrysvo against medically attended LRTD caused by RSV in infants from birth through 6 months of age by active immunisation of pregnant individuals between weeks 28 and 36 of gestation – Study 1<sup>a</sup>**

| Time period | Abrysvo<br>Number of cases<br>N=2 602 | Placebo<br>Number of cases<br>N=2 609 | VE %<br>(95% CI)  |
|-------------|---------------------------------------|---------------------------------------|-------------------|
| 90 days     | 18                                    | 43                                    | 58.0 (25.7, 77.2) |
| 120 days    | 25                                    | 61                                    | 58.9 (33.6, 75.3) |
| 150 days    | 30                                    | 76                                    | 60.4 (38.9, 75.0) |
| 180 days    | 35                                    | 90                                    | 61.0 (41.8, 74.4) |

CI = confidence interval; VE = vaccine efficacy

<sup>a</sup> Post-hoc descriptive subgroup analysis was not controlled for multiple comparisons.

#### Active immunisation of individuals 60 years of age and older

Study 2 was a phase 3, multicentre, randomised, double-blind, placebo-controlled study to assess the efficacy of Abrysvo in the prevention of RSV-associated LRTD in individuals 60 years of age and older.

RSV-associated LRTD was defined as RT-PCR confirmed RSV disease with two or more or three or more of the following respiratory symptoms within 7 days of symptom onset and lasting more than 1 day during the same illness: new or increased cough, wheezing, sputum production, shortness of breath or tachypnoea ( $\geq 25$  breaths/min or 15% increase from resting baseline).

Participants were randomised (1:1) to receive Abrysvo (n=18 487) or placebo (n=18 479). Enrollment was stratified by age 60-69 years (63%), 70-79 years (32%) and  $\geq 80$  years (5%). Subjects with stable chronic underlying conditions were eligible for this study and 52% of participants had at least 1 prespecified condition; 16% of participants were enrolled with stable chronic cardiopulmonary conditions such as asthma (9%), chronic obstructive pulmonary disease (7%) or congestive heart failure (2%). Immunocompromised individuals were ineligible.

The primary objective was assessment of vaccine efficacy (VE), defined as the relative risk reduction of first episode of RSV-associated LRTD in the Abrysvo group compared to the placebo group in the first RSV season.

Of the participants who received Abrysvo, 51% were male and 80% were White, 12% were Black or African American and 42% were Hispanic/Latino. The median age of participants was 67 years (range 59-95 years).

At the end of the first RSV season the analysis demonstrated statistically significant efficacy for Abrysvo for reduction of RSV-associated LRTD with  $\geq 2$  symptoms and with  $\geq 3$  symptoms.



Vaccine efficacy information at the end of the first RSV season (median follow-up time 7.4 months) is presented in Table 6.

**Table 6 Vaccine efficacy of Abrysvo against RSV disease - active immunisation of individuals 60 years of age and older – Study 2**

| Efficacy endpoint  |  | Abrysvo |    | Placebo |    | VE (%)<br>(95% CI) |
|--|--|---------|----|---------|----|--------------------|
|  |  | N       | n  | N       | n  |                    |
| First episode of RSV-associated LRTD with $\geq 2$ symptoms <sup>a</sup> | Overall  | 18 058  | 15 | 18 076  | 43 | 65.1 (35.9, 82.0)  |
|  | Age 60-69 years                                | 11 305  | 10 | 11 351  | 25 | 60.0 (13.8, 82.9)  |
|  | Age 70-79 years                                | 5 750   | 4  | 5 742   | 12 | 66.7 (-10.0, 92.2) |
|  | With $\geq 1$ significant underlying condition | 9 377   | 8  | 9 432   | 22 | 63.6 (15.2, 86.0)  |
| First episode of RSV-associated LRTD with $\geq 3$ symptoms <sup>b</sup> | Overall  | 18 058  | 2  | 18 076  | 18 | 88.9 (53.6, 98.7)  |
|  | Age 60-69 years                                | 11 305  | 2  | 11 351  | 11 | 81.8 (16.7, 98.0)  |
|  | Age 70-79 years                                | 5 750   | 0  | 5 742   | 4  | 100 (-51.5, 100.0) |
|  | With $\geq 1$ significant underlying condition | 9 377   | 2  | 9 432   | 11 | 81.8 (16.7, 98.0)  |

CI – confidence interval; RSV – respiratory syncytial virus; VE – vaccine efficacy

N = number of participants; n = number of cases

<sup>a</sup> In an exploratory analysis in RSV subgroup A (Abrysvo n=3, placebo n=16) VE was 81.3% (CI 34.5, 96.5); and in RSV subgroup B (Abrysvo n=12, placebo n=26) VE was 53.8% (CI 5.2, 78.8).

<sup>b</sup> In an exploratory analysis in RSV subgroup A (Abrysvo n=1, placebo n=5) VE was 80.0% (CI -78.7, 99.6); and in RSV subgroup B (Abrysvo n=1, placebo n=12) VE was 91.7% (CI 43.7, 99.8).

Vaccine efficacy in the subgroup of participants 80 years of age and older (995 and 981 participants in the Abrysvo and placebo groups, respectively) cannot be concluded due to the low number of total cases accrued (7 cases of RSV-associated LRTD with  $\geq 2$  symptoms and 3 cases of RSV-associated LRTD with  $\geq 3$  symptoms).

#### *Efficacy against RSV-associated lower respiratory tract disease over 2 RSV seasons in individuals 60 years of age and older*

Across 2 RSV seasons with median follow-up time of 16.4 months, VE against RSV-associated LRTD with  $\geq 2$  symptoms was 58.8% (95% CI 43.0, 70.6; 54 cases in the Abrysvo group and 131 cases in the placebo group) and with  $\geq 3$  symptoms was 81.5% (95% CI 63.3, 91.6; 10 cases in the Abrysvo group and 54 cases in the placebo group). VE against RSV-associated LRTD caused by RSV-A and RSV-B was 66.3% (95% CI 47.2, 79.0) and 50.0% (95% CI 18.5, 70.0) for cases with  $\geq 2$  LRTD symptoms respectively, and 80.6% (95% CI 52.9, 93.4) and 86.4% (95% CI 54.6, 97.4) for cases with  $\geq 3$  LRTD symptoms, respectively.

Across 2 RSV seasons, subgroup analyses of VE by age and significant underlying conditions were consistent with VE at the end of the first RSV season and support consistent VE across different age and risk groups.

#### Immunogenicity in individuals 18 through 59 years of age

Study 3 was a Phase 3, multicentre, randomised, double-blind, placebo-controlled study to assess the safety and immunogenicity of Abrysvo in individuals 18 through 59 years of age considered to be at high risk of developing severe LRTD caused by RSV. Study 3 enrolled individuals who had chronic pulmonary (including asthma), cardiovascular (excluding isolated hypertension), renal, hepatic, neurologic, haematologic or metabolic disorders (including diabetes mellitus and hyper/hypothyroidism). Participants were randomised (2:1) to receive a single dose of Abrysvo (n=437) or placebo (n=217).

Demographic characteristics in study 3 were generally similar with regard to age, race and ethnicity among participants who received Abrysvo and those who received placebo. Fifty-three percent (53%) were 18 to 49 years and 47% were 50 to 59 years. The vaccine and placebo groups were similar with regards to having at least one prespecified medical condition, which included 53% with  $\geq 1$  chronic pulmonary condition, 8% with  $\geq 1$  cardiovascular condition, 42% with diabetes and 31%  $\geq 1$  other disease (liver, renal, neurologic, haematologic or other metabolic disease).

Vaccine efficacy in individuals 18 through 59 years of age is inferred by immunobridging to study 2 where vaccine efficacy was demonstrated in individuals 60 years of age and older. The non-inferiority criteria were met for high risk individuals 18 through 59 years of age compared to a randomly selected immunogenicity subset (external control group) of individuals  $\geq 60$  years of age from study 2 for the ratio of RSV neutralising geometric mean titres (GMTs) by the lower bounds of the 2-sided 95% CIs  $> 0.667$  (1.5-fold non-inferiority margin), and for the difference in seroresponse rates by the lower bounds of the 2-sided 95% CIs  $> -10\%$  for both RSV A and RSV B.

**Table 7 Comparison of model adjusted RSV neutralising titre GMTs at 1 month after vaccination with Abrysvo, 18 through 59 years at high risk (Study 3) versus 60 years and older (Study 2)**

|               | Study 3 18-59 years of age at high risk |                         | Study 2 $\geq 60$ years |                         | ANCOVA comparison     |
|---------------|---|-------------------------|-------------------------|-------------------------|-----------------------|
| RSV subgroups | n                                       | Adjusted GMT (95% CI)   | n                       | Adjusted GMT (95% CI)   | Adjusted GMR (95% CI) |
| A             | 435                                     | 41097<br>(37986, 44463) | 408                     | 26225<br>(24143, 28486) | 1.57 (1.396, 1.759)   |
| B             | 437                                     | 37416<br>(34278, 40842) | 408                     | 24680<br>(22504, 27065) | 1.52 (1.333, 1.725)   |

CI – confidence interval; GMR – geometric mean ratio; GMT – geometric mean titre

**Table 8 Comparison of RSV neutralising titre seroresponse rates 1 month after vaccination with Abrysvo, 18 through 59 years at high risk (Study 3) versus 60 years and older (Study 2)**

|               | Study 3 18-59 years of age at high risk |            | Study 2 $\geq 60$ years |            | Comparison          |
|---------------|---|------------|-------------------------|------------|---------------------|
| RSV subgroups | n/N (%)                                 | 95% CI     | n/N (%)                 | 95% CI     | Difference (95% CI) |
| A             | 405/435 (93)                            | 90.3, 95.3 | 359/408 (88)            | 84.4, 91.0 | 5.1 (1.2, 9.2)      |
| B             | 408/437 (93)                            | 90.6, 95.5 | 347/408 (85)            | 81.2, 88.4 | 8.3 (4.2, 12.6)     |

CI – confidence interval

## 5.2 Pharmacokinetic properties

Not applicable.

## 5.3 Preclinical safety data

Non-clinical data reveal no special hazard for humans based on conventional studies of repeated dose toxicity and toxicity to reproduction and development.

## **6. PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

#### Powder

Trometamol  
Trometamol hydrochloride  
Sucrose  
Mannitol (E421)  
Polysorbate 80 (E433)  
Sodium chloride  
Hydrochloric acid (for pH adjustment)

#### Solvent

Water for injections

### **6.2 Incompatibilities**

In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products.

### **6.3 Shelf life**

The expiry date of the powder (antigens) and solvent is indicated on the label and packaging.

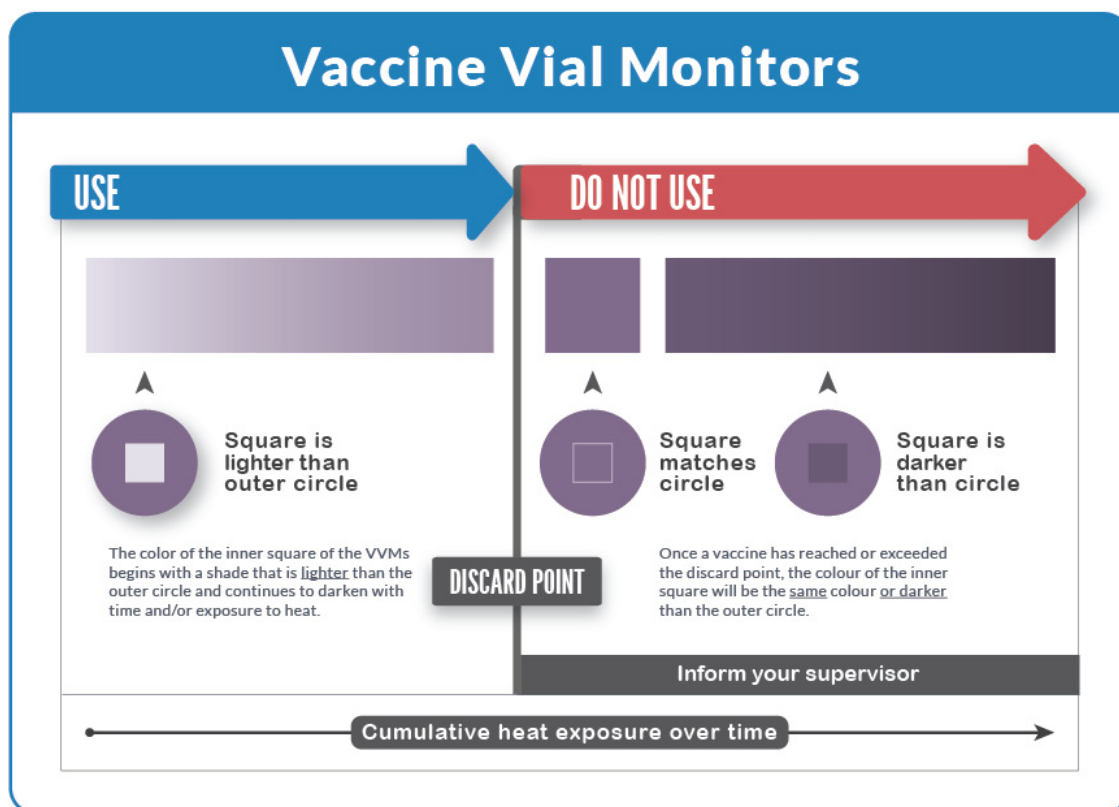
The unopened vial of powder (antigens) is stable for 5 days when stored at temperatures from 8°C to 30°C. At the end of this period the vial of powder should be used or discarded. This information is used to guide healthcare professionals in case of temporary temperature excursions only.

#### Vaccine Vial Monitor

The Vaccine Vial Monitor (VVM) is part of the cap used for all Abrysvo batches supplied by Pfizer Europe MA EEIG. The colour dot that appears on the cap of the vial of powder (antigens) is a VVM. This is a time-temperature sensitive dot that provides an indication of the cumulative heat to which the vial has been exposed. It warns the end user when exposure to heat is likely to have degraded the vaccine beyond an acceptable level.

#### Figure 1: How to read a Vaccine Vial Monitor

The interpretation of the VVM is simple. Focus on the central square. Its colour will change progressively. As long as the colour of this square is lighter than the colour of the ring, then the vaccine can be used. As soon as the colour of the central square is the same colour as the ring or of a darker colour than the ring, then the vial should be discarded.



#### After reconstitution

Abrysvo should be administered immediately after reconstitution or within 4 hours if stored between 15°C and 30°C. Do not freeze.

Chemical and physical in-use stability has been demonstrated for 4 hours between 15°C and 30°C. From a microbiological point of view, the product should be used immediately. If not used immediately, in-use storage times and conditions prior to use are the responsibility of the user.

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

Vial of powder (antigens): store in a refrigerator (2°C - 8°C).  
Vial of solvent: store below 30°C.

Do not freeze. Discard if the carton has been frozen.

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

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

Powder for 1 dose in a vial (type 1 glass or equivalent) with a stopper and a flip off cap.  
Solvent for 1 dose in a vial (type 1 glass or equivalent) with a stopper and a flip off cap.

#### Pack sizes

Carton containing 25 single dose vials of powder (antigens) and a separate carton containing 25 vials of solvent.

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

The vial containing antigens for Abrysvo (powder) must be reconstituted only with the vial of solvent provided to form Abrysvo.

### Preparation for administration

1. Using a sterile needle and sterile syringe, withdraw the entire contents of the vial containing the solvent and inject the entire contents of the syringe into the vial containing the powder.
2. Gently swirl the vial in a circular motion until the powder is completely dissolved. Do not shake.
3. Withdraw 0.5 mL from the vial containing the reconstituted vaccine.

The prepared vaccine is a clear and colourless solution. Visually inspect the vaccine for large particulate matter and discolouration prior to administration. Do not use if large particulate matter or discolouration is found.

### Disposal

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

## **MANUFACTURER**

Pfizer Europe MA EEIG  
Boulevard de la Plaine 17  
1050 Bruxelles  
Belgium

## **DATE OF REVISION OF THE TEXT**

This product information was revised on XX/XXXX.