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.

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 interactio

Abrysvo can be administered concomitantly with seasonal influenza vaccine (adjuvanted). In a randomised study in adults 65 years of age and older, the criteria for non-inferiority of the immune responses in the co-administration versus the separate administration group were met. However, numerically lower RSV A and B neutralising titres and numerically lower influenza A and B haemagglutination inhibition titres were observed when Abrysvo and influenza vaccine were co-administered than when they were administered separately. The clinical relevance of this finding is unknown.

A minimum interval of two weeks is recommended between administration of Abrysyo 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

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 (37%) and the placebo group (35%). Major birth outcomes assessed in the Abrysvo group compared to placebo included premature birth (201 (6%) and 169 (5%), respectively), low birth weight (181 (5%) and 155 (4%), respectively) and congenital anomalies (174 (5%) and 203 (6%), 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 60 years of age and older

In individuals 60 years of age and older the most frequently reported adverse reaction was vaccination site pain (11%).

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=3 682) and to individuals 60 years of age and older (n=18 575) was evaluated in phase 3 clinical trials.

Adverse reactions are listed according to the following frequency categories Very common ($\geq 1/10$); Common (≥1/100 to <1/10); Uncommon (≥1/1 000 to <1/100); Rare (≥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 pregnant individuals ≤49 years	Adverse drug reactions individuals ≥60 years	
mmune system disorders			
Hypersensitivity		Very rare	
Nervous system disorders			
Headache	Very common		
Guillain-Barré syndrome		Rare ^a	
Ausculoskeletal and conne	ective tissue diso	rders	
Myalgia	Very common		
General disorders and adn	ninistration site co	onditions	
Vaccination site pain	Very common	Very commor	
Vaccination site redness	Common	Common	
Vaccination site swelling	Common	Common	
In a study in individuals 6	0 years of age an	id older,	

of Miller Fisher syndrome were reported with onset of 7 and 8 days, respectively, after receiving Abrysvo and assessed by the investigator as possibly related to the administered vaccine. Both cases had either confounding factors or an alternative aetiology. One additional case, with onset 8 months after receiving Abrysvo, was assessed as not related to the administered vaccine by the investigator. One case of Guillain-Barré syndrome was reported in the placebo group 14 months after administration

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.

In infants born to mothers who were vaccinated with Abrysvo, protection against RSV-associated lower respiratory tract disease is due to transplacental transfe of RSV neutralising antibodies. Adults 60 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 is 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 lower respiratory tract disease in infants born to pregnant individuals vaccinated between weeks 24 and 36 of gestation. The need for revaccination with

RSV-associated lower respiratory tract illness was defined polymerase chain reaction (RT-PCR) confirmed RSV illness with one or more of the following respiratory symptoms: fast breathing, low oxygen saturation (SpO₂ <95%) and chest wall indrawing. RSV-associated severe lower respiratory tract illness was defined as an illness that met the lower respiratory tract illness-RSV criteria plus at least one of the following: very fast breathing, low oxygen saturation (SpO₂ <93%), high-flow oxygen supplementation via nasal cannula or mechanical ventilation, ICU admission

In this study, 3 695 pregnant individuals with uncomplicated, singleton pregnancies were randomised to the Abrysvo group and 3 697 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. There were two primary efficacy endpoints, assessed in parallel, severe RSV-positive medically attended lower respiratory

respiratory tract illness, 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 lower respiratory tract illness caused by RSV in infants from birth through 6 months of age by active immunisation of pregnant individuals – Study 1				
Time	Abrysvo	Placebo	VE %	
period	Number of	Number of	(CI) ^a	

	N=3 495	N=3 480	
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			

^a 99.5% CI at 90 days; 97.58% CI at later intervals

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

Time period	Abrysvo Number of cases N=3 495	Placebo Number of cases N=3 480	VE % (CI)ª
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 ^a 99.5% CI at 90 days; 97.58% CI at later intervals

Tabl

120 days

150 davs

180 davs

Time

period

90 days

120 davs

150 days

180 days

older

5

6

controlled for multiple comparisons.

able 4	ble 4 Vaccine efficacy of Abrysvo against severe medically attended lower respiratory tract illness 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 ^a		
Time	Abrysvo	Placebo	VE %
period	Number of	Number of	(95% CI)
	cases	cases	
	N=2 602	N=2 609	
90 davs	2	22	90.9 (62.9, 99.0)

31

38

43

90

83.8 (58.0, 95.1) 84 2 (62 3 94 5) 81.3 (59.9, 92.4)

6.3 Shelf life

Powder

Sucrose

<u>Solvent</u>

only.

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

USE

subsequent pregnancies has not been established.

as a medically attended visit with a reverse transcriptionfor >4 hours and/or failure to respond/unconscious.

tract illness and RSV-positive medically attended lower

CI = confidence interval: VE = vaccine efficacy^a Post-hoc descriptive subgroup analysis was not controlled for multiple comparisons Table 5 Vaccine efficacy of Abrysvo against medically attended lower respiratory tract illness caused by RSV in infants from birth through 6 months of age by active immunisation of pregnan individuals between weeks 28 and 36 of gestation – Study 1ª Abrysvo Placebo Number of Number of (95% CI) cases cases N=2 602 N=2 609 58.0 (25.7. 77.2 18 43 58.9 (33.6. 75.) 61 30 76 60.4 (38.9, 75.

CI = confidence interval: VE = vaccine efficacy ^a Post-hoc descriptive subgroup analysis was not Active immunisation of individuals 60 years of age and

61.0 (41.8, 74.4)

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

RSV-associated lower respiratory tract illness was defined as RT-PCR confirmed RSV illness 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 (≥25 breaths/min or 15% increase from resting baseline).

Participants were randomised (1:1) to receive Abrysvo (n-18 488) or placebo (n-18 479) F stratified by age 60-69 years (63%), 70-79 years (32%) and ≥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 lower respiratory tract illness 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 41% were Hispanic/Latino. The median age of participants was 67 years (range 59-95 years).

PAA236560 033

Septizer Abrysvo®

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

60 micrograms F antigen^{1,} RSV subgroup B stabilised prefusion 60 micrograms F antigen^{1,} (RSV antigens) ¹glycoprotein F stabilised in the prefusion conformation ²produced in Chinese Hamster Ovary cells by

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

recombinant DNA technology.

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:

official recommendations.

Pregnant individuals

Paediatric population

their infants (see section 5.1).

Method of administration

of the upper arm.

Traceability

or medicinal products.

4.3 Contraindications

excipients listed in section 6.1.

Posology

4.4 and 5.1).

 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 60 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

4.2 Posology and method of administration

A single dose of 0.5 mL should be administered in the

<u>Individuals 60 years of age and older</u> A single dose of 0.5 mL should be administered.

third trimester of pregnancy (28-36 weeks) (see sections

The safety and efficacy of Abrysvo in children (from birth to

Abrysvo is for intramuscular injection into the deltoid region

The vaccine should not be mixed with any other vaccines

medicinal product before administration, see section 6.6.

Hypersensitivity to the active substances or to any of the

4.4 Special warnings and precautions for use

In order to improve the traceability of biological medicinal

products, the name and the batch number of the

administered product should be clearly recorded

For instructions on reconstitution and handling of the

less than 18 years of age) have not yet been established.

Limited data are available in pregnant adolescents and

At the end of the first RSV season the analysis demonstrated statistically significant efficacy for Abrysvo for reduction of RSV-associated lower respiratory tract illness with ≥ 2 symptoms and with ≥ 3 symptoms.

Vaccine efficacy information 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 Number of cases N=18 058	Placebo Number of cases N=18 076	VE (%) (95% CI)
First episode of RSV-associated lower respiratory tract illness with ≥2 symptoms ^a	15	43	65.1 (35.9, 82.0)
First episode of RSV-associated lower respiratory tract illness with ≥3 symptoms ^b	2	18	88.9 (53.6, 98.7)

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

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

^b 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% (Cl 43.7, 99.8).

5.2 Pharmacokinetic properties

Not applicable.

First episo

≥3 sympt

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

Trometamol Trometamol hydrochloride

Mannitol (E421) Polysorbate 80 (E433) Sodium chloride

Hydrochloric acid (for pH adjustment)

Water for injections

6.2 Incompatibilities

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

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

Vaccine Vial Monitor

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

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

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.
- Gently swirl the vial in a circular motion until the 2. powder is completely dissolved. Do not shake,
- Withdraw 0.5 mL from the vial containing the З. 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.

Disposa

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

MANUFACTURER

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DATE OF REVISION OF THE TEXT

This product information was revised on month/year

