ANNEX I
SUMMARY OF PRODUCT CHARGETERISTICS

Wedicinal product to

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.

NAME OF THE MEDICINAL PRODUCT 1.

VEPACEL suspension for injection in multidose container Prepandemic influenza vaccine (H5N1) (whole virion, inactivated, prepared in cell culture)

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

** haemagglutinin

This is a multidose container. See section 6.5 for the number of dosester vial.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

** luspension for injection.
** lear to opalescent suspension.

** CLINICAL PARTICULAR*

Therapeutic indications

ive interpretation of the strain of

Active immunisation agains N1 subtype of influenza A virus.

This indication is based on immunogenicity data from subjects from the age of 6 months onwards atten of two doses of vaccine prepared with H5N1 subtype strains (see section 5.1).

cine should be in accordance with official recommendations.

ogy and method of administration

Adults and children from 6 months onwards:

One dose of 0.5 ml at an elected date.

A second dose of 0.5 ml should be given after an interval of at least three weeks.

other paediatric Population

No data is available on the safety and efficacy of VEPACEL in children younger than 6 months of age.

Method of administration

Immunisation should be carried out by intramuscular injection into the deltoid muscle or anterolateral thigh, depending on the muscle mass.

See section 6.6 for administration instructions.

4.3 Contraindications

History of anaphylactic reactions to the active substance, or to any of the excipients listed in section 6.1, or trace residues (formaldehyde, benzonase, sucrose, trypsin, Vero host cell protein). If vaccination is considered necessary, facilities for resuscitation should be immediately available in case of need (see section 4.4).

4.4 Special warnings and precautions for use

This vaccine may contain traces of formaldehyde, benzonase, sucrose, trypsin and Vero fost cell protein, which are used during the manufacturing process. Therefore, hypersensitivity reactions may occur.

As with all injectable vaccines, appropriate medical treatment and supervision should always be readily available in case of a rare anaphylactic event following the administration of the vaccine.

Hypersensitivity reactions, including anaphylaxis, have been report of howing use of a similar whole virion, Vero cell derived H1N1 influenza vaccine administered during a pandemic period. Such reactions have occurred both in patients with a history of patharle allergies and in patients with no known allergy.

Immunisation shall be postponed in patients with severe febrile illness or acute infection.

VEPACEL must not be administered intravascularly

There are no data with VEPACEL using the structure of the vaccine in individuals with thrombocytopenia or any bleeding disorder that would contraindicate intramuscular injection unless the potential benefit outwards are risk of bleeding.

Antibody response in patier's with endogenous or iatrogenic immunosuppression may be insufficient.

A protective immune (exponse may not be induced in all individuals receiving the vaccine (see section 5.1).

4.5 Interaction with other medicinal products and other forms of interaction

There are data on co-administration of VEPACEL with other vaccines. However, if co-administration with the vaccine is indicated, immunisation should be carried out on separate limbs. It should be intentioned that the adverse reactions may be intensified.

Immunoglobulin is not to be given with VEPACEL unless it is necessary during a medical emergency to provide immediate protection. If necessary, VEPACEL may be given at the same time as normal or specific immunoglobulin into separate limbs.

The immunological response may be diminished if the patient is undergoing treatment with immunosuppressants.

Following influenza vaccination, false positive serology test results may be obtained by the ELISA method for antibody to human immunodeficiency virus-1 (HIV-1), hepatitis C virus, and especially,

HTLV-1. In such cases, the western blot method is negative. These transitory false-positive results may be due to IgM production in response to the vaccine.

4.6 Fertility, pregnancy and lactation

The safety of VEPACEL in pregnancy and lactation has not been assessed in clinical trials.

Animal studies with H5N1 strain vaccines (A/Vietnam/1203/2004 and A/Indonesia/05/2005) do not indicate direct or indirect harmful effects with respect to fertility, pregnancy, embryonal/foetal development, parturition or post-natal development (see section 5.3).

Healthcare providers should carefully consider the potential risks and benefits for each specific p before prescribing VEPACEL.

The use of VEPACEL during pregnancy and lactation may be considered in a pre-pandemic so taking into account official recommendations.

4.7 Effects on ability to drive and use machines

VEPACEL has minor influence on the ability to drive and use machines.

4.8 Undesirable effects

a) Summary of safety profile

Adults, older people, and special risk groups

Clinical trials were conducted with the H5N1 vaccing (see section 5.1 for more information on the H5N1 vaccines) in approximately 3700 subjects (ranging in age groups from 18 to 59 years and 60 years and above) and special risk groups of approximately 300 subjects each, consisting of immunocompromised subjects and patients with chronic disease conditions. The adverse reactions observed are shown in the table below.

The safety profile in immunocompr d subjects and patients with chronic disease conditions is similar to the safety profile in he idults and older people.

Infants, children, and add

ged 3 to 17 years:

Children and adolescents In a clinical trial 3.00 and blescents aged 9 to 17 years and 153 children aged 3 to 8 years were administered the N N1 vaccine. The incidence and nature of symptoms after the first and second re similar to those observed in the healthy adults and older people.

hildren aged 6 to 35 months:

trial the H5N1 vaccine was administered to 36 infants and children aged 6 to 35 months.

observed adverse reactions from a paediatric clinical trial with the H5N1 vaccine are listed below.

b) Tabulated list of adverse reactions

Adverse reactions are listed according to the following frequency:

Very Common (≥1/10)

Common (≥1/100 - <1/10) Uncommon (≥1/1,000 - <1/100)

Rare (\ge 1/10,000 - <1/1,000) Very Rare (<1/10,000)

A	Adverse Reactions (adults and older people)	
System Organ Class (SOC)	Preferred MedDRA Term	Frequency
INFECTIONS AND	Nasopharyngitis	Common
INFESTATIONS		
BLOOD AND LYMPHATIC	Lymphadenopathy	Uncommon
SYSTEM DISORDERS		• 65
PSYCHIATRIC	Insomnia	Uncommon
DISORDERS		
NERVOUS SYSTEM	Headache	Very common
DISORDERS	Dizziness	Urcommon
	Somnolence	Ucommon
	Sensory disturbance (paresthesia, dysesthe	sia Common
	oral dysesthesia, hypoesthesia, dysgeusia,	
	and burning sensation)	
	Syncope	Uncommon
EYE DISORDERS	Conjunctivitis	Uncommon
	Eye irritation	Uncommon
EAR AND LABYRINTH	Vertigo	Common
DISORDERS	Ear pain	Uncommon
	Sudden hearing loss	Uncommon
VASCULAR DISORDERS	Hypotension	Uncommon
RESPIRATORY,	Oropharyngea pun	Common
THORACIC AND	Cough	Common
MEDIASTINAL	Dyspnea	Uncommon
DISORDERS	Nasal congestion	Uncommon
	Rhinorthea	Uncommon
	or throat	Uncommon
GASTROINTESTINAL	Viarrhea	Common
DISORDERS	Vomiting	Uncommon
\sim	Nausea	Uncommon
, V	Abdominal pain	Uncommon
~ '	Dyspepsia	Uncommon
SKIN AND	Hyperhidrosis	Common
SUBCUTANEOUX TISSUE	Pruritis	Common
DISORDERS	Rash	Uncommon
,,, ,,,,	Urticaria	Uncommon
MUSCULONKELETAL	Arthralgia	Common
AND CONNECTIVE	Myalgia	Common
TINISISORDERS		

Ad	verse Reactions (adults and older people)	
System Organ Class (SOC)	Preferred MedDRA Term	Frequency
GENERAL DISORDERS	Fatigue	Very Common
AND ADMINISTRATION	Pyrexia	Common
SITE CONDITIONS	Chills	Common
	Malaise	Common
	Influenza-like illness	Uncommon
	Chest discomfort Uncommon	
	Injection Site Reactions	
	Injection site pain	Very Common
	Injection site induration	Common
	Injection site eyrthema	Common
	Injection site swelling	Common
	Injection site hemorrhage	Common
	Injection site irritation	Uncommon
	Injection site pruritus	Uncommon
	Injection site movement impairment	Uncommon
	•	

Ac	lverse Reactions (infants, o	children and adole	scents)	V
System Organ Class	Preferred MedDRA		Frequenc	
(SOC)	Term	6-35 months	3 % ars	9 – 17 years
INFECTIONS AND	Nasopharyngitis	Common	Compon	Common
INFESTATIONS				
METABOLISM AND	Decreased appetite	Common	Uncommon	Uncommon
NUTRITION DISORDERS				
PSYCHIATRIC	Insomnia	- (\(\frac{1}{2}\)	-	Uncommon
DISORDERS	Sleep disorder	Common	-	-
NERVOUS SYSTEM	Dizziness	-\\	-	Uncommon
DISORDERS	Headache	-	Common	Very Common
	Crying	Tommon	-	-
	Somnolence	Very Common	-	-
	Hypoaesthesia 🗙 🔻	-	-	Uncommon
EYE DISORDERs	Eye irritation	-	Uncommon	-
EAR AND LABYRINTH	Vertigo	-	-	Uncommon
DISORDERS	χV			
RESPIRATORY,	Cough	-	Uncommon	Uncommon
THORACIC AND	Oroph ryngeal pain	-	Common	Common
MEDIASTINAL	Thinorrhoea	-	Uncommon	Uncommon
DISORDERS) ·			
GASTROINTESTINAL	Abdominal pain	-	-	Common
DISORDERS	Nausea	Common	Common	Common
	Vomiting	Common	Common	Common
	Diarrhoea	Common	Uncommon	Uncommon
SKIN AND	Hyperhidrosis	Common	Uncommon	Common
SUBCUTANIOUS TISSUE	Pruritus	-	-	Uncommon
DISORDERS				
MNS WIOSKELETAL	Arthralgia	-	Common	Common
AND CONNECTIVE	Myalgia	-	Common	Common
NSSUE DISORDERS	Pain in extremity	-	-	Uncommon

Ad	Adverse Reactions (infants, children and adolescents)							
System Organ Class	Preferred MedDRA	Frequency						
(SOC)	Term	6 - 35 months	3-8 years	9 – 17 years				
GENERAL DISORDERS	Injection site pain	Very common	Very common	Very common				
AND ADMINISTRATION	Injection site induration	Common	Common	Common				
SITE CONDITIONS	Injection site erythema	Common	Common	Common				
	Injection site swelling	Common	Common	Common				
	Injection site	Common	Common	Uncommon				
	hemorrhage							
	Injection site pruritus	-	Uncommon	Uncommon				
	Axillary pain	-	Uncommon	Uncommon				
				$-\mathbf{O}$				
	Fatigue	-	Common	Common				
	Pyrexia	Very Common	Common	Uncommen				
	Chills	-	-	Common				
	Irritability	Very Common	-	~/,				
	Malaise	-	Common	Common				
	Feeling Cold	-	Uncommon	Uncommon				

Post-marketing surveillance

There are no post-marketing surveillance data available for VEPACEI

Celvapan (H1N1)v

From post-marketing surveillance with a whole virion, Vero cell defived, H1N1 vaccine, the following adverse reactions have been reported (the frequency of these adverse reactions is not known as it cannot be estimated from the available data):

Immune system disorders: anaphylactic reaction, by ersensitivity

Nervous system disorders: febrile convulsion

Skin and subcutaneous tissue disorders: angio edema

Muscoluskeletal and connective tissue disorders: pain in extremity

Trivalent seasonal influenza vaccine

The following serious adverse rections have been reported from post-marketing surveillance with egg-derived interpandemic trivilent vaccines:

Uncommon: generalised skin reactions

Rare: neuralgia, transfer inrombocytopenia. Allergic reactions, in rare cases leading to shock, have been reported.

Very rare: vas ultis with transient renal involvement. Neurological disorders, such as encephalomyeritis, neuritis, and Guillain Barré syndrome.

Reporting of suspected adverse reactions

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.

4.9 Overdose

No case of overdose has been reported for VEPACEL.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Influenza vaccines, ATC Code J07BB01

This section describes the clinical experience with the H5N1 vaccine.

Pandemic and Pre-pandemic vaccines contain influenza antigens that are different from those in the currently circulating influenza viruses. These antigens can be considered as 'novel' antigens and simulate a situation where the target population for vaccination is immunologically naïve. Data obtained with the H5N1 vaccines will support a vaccination strategy that is likely to be used for the pandemic vaccine: clinical immunogenicity, safety and reactogenicity data obtained with H5N1 vaccines are relevant for the pandemic and pre-pandemic vaccines.

Adults, older people, and special risk groups Immune response against A/Vietnam/1203/2004 (H5N1)

The immunogenicity of the A/Vietnam/1203/2004 strain vaccine has been evaluated in three clinical studies in adults aged 18 – 59 years (N=961) and in two clinical studies in subjects aged 60 years and older (N=391) following a 0, 21 day schedule. In addition, the immunogenicity has also been evaluated in a Phase 3 study in specified risk groups of immunocompromised subjects (N=122) and patients with chronic disease conditions (N=123) following a 0, 21 day schedule.

Immunogenicity in adults aged 18 to 59 years (N=961) and in subjects aged 60 years and older (N=391)

After primary vaccination the rate of subjects with neutralising antibody titres > 20, seroconversion rate and seroconversion factor as measured by microneutralisation assay (MN) in adults aged 18 to 59 years and in older people aged 60 years and above were as follows:

		8 – 59 years 21 Days after		and above ys after
	1 st Dose 2 nd Dose		1 st Dose	2 nd Dose
Seroneutralisation rate*	44.4%	69.7%	51.9%	69.2%
Seroconversion rate**	32.7%	56.0%	13.3%	23.9%
Seroconversion factor***	3.0	4.5	2.0	2.6

^{*} MN titre ≥ 20

Immunogenicity in immunocompromised subjects (N=122) and patients with chronic disease conditions (N=128)

After vacination the rate of subjects with neutralising antibody titres ≥ 20 , seroconversion rate and sero an ersion factor as measured by MN assay in immunocompromised subjects and patients with checked disease conditions were as follows:

	Immunocompr	omised subjects	Patients with chronic disease conditions		
	21 Day	ys after	21 Days after		
	1 st Dose	2 nd Dose	1 st Dose	2 nd Dose	
Seroneutralisation rate*	24.8%	41.5%	44.3%	64.2%	
Seroconversion rate**	9.1%	32.2%	17.2%	35.0%	
Seroconversion factor***	1.6	2.5	2.3	3.0	

^{*} MN titre ≥ 20

^{** &}gt; 4-fold increase a Matitre

^{***} geometric mean increase

^{**} \geq 4-fold increase in MN titre

^{***} geometric mean increase

Cross-reactive immune response against related H5N1 strains

In a clinical study in adults aged 18 to 59 years (N=265) and in older people aged 60 years and above (N=270) after vaccination with the A/Vietnam/1203/2004 strain vaccine, the rate of subjects with cross-neutralising antibodies as measured by MN (titre \geq 20) was as follows:

	18 – 59 years	60 years and above
	Strain A/Inc	lonesia/05/2005
	21 Days after 2nd Dose	21 Days after 2nd Dose
Seroneutralisation rate*	35.1%	54.8%

^{*} MN titre ≥ 20

Heterologous booster vaccinations

A heterologous booster vaccination with a 7.5 µg non-adjuvanted formulation of the A/Indonesia/05/2005 strain vaccine has been administered in a time frame of 12 to 24 months after priming vaccination with two doses of the A/Vietnam/1203/2004 strain vaccine in three dinical studies in adults aged 18 to 59 years and in older people aged 60 years and above 1 12 to 24 months heterologous booster has also been administered in a phase 3 study in immunocomboromised subjects and patients with chronic disease conditions.

Seroneutralisation rates (MN titre \geq 20) at 21 days after a 12 to 24 months booster vaccination with the 7.5 µg dose of the A/Indonesia/05/2005 strain vaccine, tested against both the homologous and heterologous strains were as follows:

Seroneutralisation rate*	18 – 59 years		7	60 years	and above
Tested against	A/Vietnam	A/Indonesia	,	A/Vietnam	A/Indonesia
12 – 24 months booster	89.8%	86.9%		82.9%	75.3%
* MN titre > 20					

^{*} MN titre ≥ 20

Seroneutralisation rate*	Immunocompro	prised subjects	Patients with chronic disease conditions		
Tested against	A/Vietnam	A/Indonesia	A/Vietnam	A/Indonesia	
12 – 24 months booster	71.6%	65.7%	77.5%	70.8%	
1 2071 00					

^{*} MN titre ≥ 20

A booster with a 7.5 μ g non-adjuvanted formulation of the A/Indonesia/05/2005 strain vaccine administered 12 months after a single dose priming vaccination with the A/Vietnam/1203/2004 strain vaccine was also evaluated in adults aged 18 to 59 years.

Seroneutralisation rates (MN titre \geq 20) at 21 days after a 12 months booster vaccination with the 7.5 µg dose of the A/Indonesia/05/2005 strain vaccine, tested against both the homologous and heterologous strains were as follows:

Sero patralisation rate*		
Tested against	A/Vietnam	A/Indonesia
2 Month Booster	85.9%	92.9%

* $\stackrel{\bullet}{\text{MN}}$ titre ≥ 20

Infants, children, and adolescents

Immune response against A/Vietnam/1203/2004 (H5N1)

The immunogenicity of the A/Vietnam/1203/2004 strain vaccine has been evaluated in a clinical trial in children and adolescents aged 9 to 17 years (N=288), in children aged 3 to 8 years (N=146) and in infants and children aged 6 to 35 months (N=33) following a 0, 21 day schedule.

After vaccination, the rate of subjects with neutralizing antibody titers \geq 20, seroconversion rate and seroconversion factor, as measured by MN assay, in infants, children, and adolescents aged 6 months to 17 years were as follows:

	9 – 17 years			3 – 8 years		6-35 months	
MN assay	21 D	ays after	21 D	ays after	21 D	ays after	
-	1 st Dose	2 nd Dose	1 st Dose	2 nd Dose	1 st Dose	2 nd Dose	
Seroneutralization rate*	52.6%	85.4%	17.1%	72.9%	3.0%	68.8%	
Seroconversion rate**	9.1%	31.8%	16.4%	72.2%	9.1%	65.6%	
Seroconversion factor***	1.6	3.1	2.1	6.3	1.4	6.8	

^{*} MN titer ≥ 20

Heterologous Booster Vaccinations

A heterologous booster vaccination with a 7.5 µg non-adjuvanted formulation of the Alindonesia/05/2005 strain vaccine has been administered 12 months after a priming vaccination with two loses of the A/Vietnam/1203/2004 strain vaccine in children and adolescents aged 9 to 17 years (N=196), children aged 3 to 8 years (N=79) and infants and children aged 6 months to 35 months (N=20)

Seroneutralization rates (MN titer \geq 20) at 21 days after a booster variation with the 7.5 µg dose of the A/Indonesia/05/2005 strain vaccine, tested against both the homologous and heterologous strains, were as follows:

Seroneutralization	9 – 17 years		9 – 17 years		6 – 35 months	
rate* Tested against	A /Vietnem	A /Indonesia	A /Vianam	A/Indonesia	A /Vietnem	A/Indonesia
rested against	A/Vietnam	A/muonesia	Medialii	A/muonesia	A/ v ieuiaiii	A/muonesia
12 Month Booster	94.1%	93.1%	34.7%	97.2%	100.0%	100.0%

^{*} MN titer ≥ 20

Information from non-clinical studie

The protective efficacy of VEPACE, against morbidity and mortality induced by the infection with lethal doses of highly pathogenic avan influenza H5N1 virus was assessed non-clinically in a ferret challenge model.

Sixteen ferrets were divided into two cohorts and were vaccinated on days 0 and 21 with 7.5 µg of the A/Vietnam/1203/2001 vaccine or were sham vaccinated. All ferrets were challenged intranasally on day 35 with a highestose of the highly virulent H5N1 virus strain A/Vietnam/1203/2004 and monitored for 14 cays. Ferrets vaccinated with the 7.5 µg dose of the A/Vietnam/1203/2004 vaccine demonstrated a high rate of seroconversion. The A/Vietnam/1203/2004 vaccine afforded protection against homologous challenge as evidenced by full survival, reduced weight loss, a less pronounced and shorter increase in temperature, a less marked reduction in lymphocyte counts and in reduction of inflammation and necrosis in brain and olfactory bulb in the vaccinated cohorts as compared to control angular. All control animals succumbed to the infection.

5.2 Pharmacokinetic properties

Not applicable.

5.3 Preclinical safety data

Non-clinical studies demonstrated minor alterations in liver enzymes and calcium levels in a repeat dose toxicity study in rats. Clinically significant alterations in liver enzymes and calcium levels have not been seen to date in human clinical studies.

^{** &}gt; 4-fold increase in MN titer

^{***} geometric mean increase

Animal reproductive and developmental toxicology studies do not indicate harmful effects in regard to female fertility, embryo-foetal and pre- and post-natal toxicity.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Trometamol Sodium chloride Water for injections Polysorbate 80

6.2 **Incompatibilities**

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

6.3 Shelf life

2 years

After first opening 41.

After first opening, the vaccine should be used immediately. However, emical and physical in-use stability has been demonstrated for 3 hours at room temperature

Special precautions for storage 6.4

Store in a refrigerator (2°C to 8°C).

Do not freeze.

Store in the original package in order to protect

Nature and contents of the contain 6.5

One pack of 20 multidose vials (tyr s) of 5 ml suspension (10 x 0.5 ml doses) with a stopper (bromobutyl rubber).

6.6 Special precautions or disposal and other handling

wed to reach room temperature before use. Shake before use. Visually inspect th ension prior to administration. In case of any particles and/or abnormal ine should be discarded.

ntains 10 doses of 0.5 ml.

0.5 ml is withdrawn into a syringe for injection.

used vaccine or waste material should be disposed of in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

Ology Bioservices Ireland LTD Wilton Park House Wilton Place Dublin 2 D02P447 Ireland

8. MARKETING AUTHORISATION NUMBER

EU/1/12/752/001

9. DATE OF FIRST AUTHORISATION / RENEWAL OF THE AUTHORISATION

Date of first authorisation: 17/02/2012 Date of latest renewal: 04/01/2017

Detailed information on this medicinal product is available on the website of the European Rescence (EMA): http://www.ema.europa.eu/

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.

NAME OF THE MEDICINAL PRODUCT 1.

VEPACEL suspension for injection in pre-filled syringe Prepandemic influenza vaccine (H5N1) (whole virion, inactivated, prepared in cell culture)

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

1 dose (0.5 ml) contains:

Jet no longer authorised Influenza virus (whole virion, inactivated), containing antigen* of strain: A/Vietnam/1203/2004 (H5N1)

- produced in Vero cells
- haemagglutinin

The vaccine is available in a single dose pre-filled syringe.

For the full list of excipients, see section 6.1.

PHARMACEUTICAL FORM 3.

Suspension for injection. Clear to opalescent suspension.

4. **CLINICAL PARTICULA**

Therapeutic indications

Active immunisation agains N1 subtype of influenza A virus.

This indication is based of immunogenicity data from subjects from the age of 6 months onwards ath in of two doses of vaccine prepared with H5N1 subtype strains (see section 5.1).

cine should be in accordance with official recommendations.

ogy and method of administration

Adults and children from 6 months onwards:

One dose of 0.5 ml at an elected date.

A second dose of 0.5 ml should be given after an interval of at least three weeks.

other paediatric Population

No data is available on the safety and efficacy of VEPACEL in children younger than 6 months of age.

Method of administration

Immunisation should be carried out by intramuscular injection into the deltoid muscle or anterolateral thigh, depending on the muscle mass.

See section 6.6. for administration instructions.

4.3 Contraindications

History of anaphylactic reactions to the active substance, or to any of the excipients listed in section 6.1, or trace residues (formaldehyde, benzonase, sucrose, trypsin, Vero host cell protein). If vaccination is considered necessary, facilities for resuscitation should be immediately available in case of need (see section 4.4).

4.4 Special warnings and precautions for use

This vaccine may contain traces of formaldehyde, benzonase, sucrose, trypsin and Vero holt cell protein, which are used during the manufacturing process. Therefore, hypersensitivity reactions may occur.

As with all injectable vaccines, appropriate medical treatment and supervision should always be readily available in case of a rare anaphylactic event following the administration of the vaccine

Hypersensitivity reactions, including anaphylaxis, have been reported following use of a similar whole virion, Vero cell derived H1N1 influenza vaccine administer orbiting a pandemic period. Such reactions have occurred both in patients with a history of martible allergies and in patients with no known allergy.

Immunisation shall be postponed in patients with severe there illness or acute infection.

VEPACEL must not be administered intravascularly

There are no data with VEPACEL using the subcutaneous route. Therefore, healthcare providers need to assess the benefits and potential risks of administering the vaccine in individuals with thrombocytopenia or any bleeding disorde that would contraindicate intramuscular injection unless the potential benefit outweights the risk of bleeding.

Antibody response in patients (ith endogenous or iatrogenic immunosuppression may be insufficient.

A protective immune response may not be induced in all individuals receiving the vaccine (see section 5.1).

4.5 Interaction with other medicinal products and other forms of interaction

There are no data on co-administration of VEPACEL with other vaccines. However, if co-administration with another vaccine is indicated, immunisation should be carried out on separate limbs. It should be noted that the adverse reactions may be intensified.

Imhunoglobulin is not to be given with VEPACEL unless it is necessary during a medical emergency to provide immediate protection. If necessary, VEPACEL may be given at the same time as normal or specific immunoglobulin into separate limbs.

The immunological response may be diminished if the patient is undergoing treatment with immunosuppressants.

Following influenza vaccination, false positive serology test results may be obtained by the ELISA method for antibody to human immunodeficiency virus-1 (HIV-1), hepatitis C virus, and especially, HTLV-1. In such cases, the western blot method is negative. These transitory false-positive results may be due to IgM production in response to the vaccine.

4.6 Fertility, pregnancy and lactation

The safety of VEPACEL in pregnancy and lactation has not been assessed in clinical trials.

Animal studies with H5N1 strain vaccines (A/Vietnam/1203/2004 and A/Indonesia/05/2005) do not indicate direct or indirect harmful effects with respect to fertility, pregnancy, embryonal/foetal development, parturition or post-natal development (see section 5.3).

Healthcare providers should carefully consider the potential risks and benefits for each specific patient before prescribing VEPACEL.

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4.7 Effects on ability to drive and use machines

VEPACEL has minor influence on the ability to drive and use machines.

4.8 **Undesirable effects**

- Summary of safety profile a)
- Adults, older people, and special risk groups

Clinical trials were conducted with the H5N1 vaccine (see 5.1 for more information on the H5N1 vaccines) in approximately 3700 subjects (ranging ge groups from 18 to 59 years and 60 years and above) and special risk groups of approximately 300 subjects each, consisting of immunocompromised subjects and patients with a disease conditions. The adverse reactions observed are shown in the table below.

The safety profile in immunocompromised subjects and patients with chronic disease conditions is similar to the safety profile in health s and older people.

Infants, children, and add

Children and adolescents aged

In a clinical trial 300 adolescents aged 9 to 17 years and 153 children aged 3 to 8 years were cine. The incidence and nature of symptoms after the first and second administered the H5NL vaccination we to those observed in the healthy adults and older people.

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ed adverse reactions from a paediatric clinical trial with the H5N1 vaccine are listed below.

b) Tabulated list of adverse reactions

Adverse reactions are listed according to the following frequency:

Very Common (≥1/10)

Common (≥1/100 - <1/10) Uncommon (≥1/1,000 - <1/100)

Rare $(\ge 1/10,000 - < 1/1,000)$

Very Rare (<1/10,000)

	Adverse Reactions (adults and older people)	
System Organ Class (SOC)	Preferred MedDRA Term	Frequency
INFECTIONS AND	Nasopharyngitis	Common
INFESTATIONS		
BLOOD AND LYMPHATIC	Lymphadenopathy	Uncommon
SYSTEM DISORDERS		• 65
PSYCHIATRIC	Insomnia	Uncommon
DISORDERS		
NERVOUS SYSTEM	Headache	Very common
DISORDERS	Dizziness	Occimmon
	Somnolence	Uccommon
	Sensory disturbance (paresthesia, dysesthe	cio. Common
	oral dysesthesia, hypoesthesia, dysgeusia,	
	and burning sensation)	
	Syncope	Uncommon
EYE DISORDERS	Conjunctivitis	Uncommon
	Eye irritation	Uncommon
EAR AND LABYRINTH	Vertigo	Common
DISORDERS	Ear pain	Uncommon
	Sudden hearing loss	Uncommon
VASCULAR DISORDERS	Hypotension	Uncommon
RESPIRATORY,	Oropharyngea pun	Common
THORACIC AND	Cough	Common
MEDIASTINAL	Dyspnea	Uncommon
DISORDERS	Nasal congestion	Uncommon
	Rhinoribea	Uncommon
	Ory throat	Uncommon
GASTROINTESTINAL	harrhea	Common
DISORDERS	Vomiting	Uncommon
\sim	Nausea	Uncommon
\ \ \	Abdominal pain	Uncommon
~ '	Dyspepsia	Uncommon
SKIN AND	Hyperhidrosis	Common
SUBCUTANEOUX TISSUE	Pruritis	Common
DISORDERS	Rash	Uncommon
(10)	Urticaria	Uncommon
MUSCUYONKELETAL	Arthralgia	Common
AND CONNECTIVE	Myalgia	Common
TIMEDISORDERS	_	

Ac	lverse Reactions (adults and older people)	
System Organ Class (SOC)	Preferred MedDRA Term	Frequency
GENERAL DISORDERS	Fatigue	Very Common
AND ADMINISTRATION	Pyrexia	Common
SITE CONDITIONS	Chills	Common
	Malaise	Common
	Influenza-like illness	Uncommon
	Chest discomfort	Uncommon
	Injection Site Reactions	
	Injection site pain	Very Common
	Injection site induration	Common
	Injection site eyrthema	Common
	Injection site swelling	Common
	Injection site hemorrhage	Common
	Injection site irritation	Uncommon
	Injection site pruritus	Uncommon
	Injection site movement impairment	Uncommon
		0

Ac	dverse Reactions (Infants, o	children and adole	scents)	V
System Organ Class	Preferred MedDRA		Frequency	
(SOC)	Term	6 – 35 months	3 % drs	9 – 17 years
INFECTIONS AND INFESTATIONS	Nasopharyngitis	Common	Common	Common
METABOLISM AND NUTRITION DISORDERS	Decreased appetite	Common	Uncommon	Uncommon
PSYCHIATRIC	Insomnia	- ~~	-	Uncommon
DISORDERS	Sleep disorder	Cormon	-	-
NERVOUS SYSTEM	Dizziness	-\\	-	Uncommon
DISORDERS	Headache	-	Common	Very Common
	Crying	ommon	-	-
	Somnolence	Very Common	-	-
	Hypoaesthesia 🗶 🔻	-	-	Uncommon
EYE DISORDERs	Eye irritation	-	Uncommon	-
EAR AND LABYRINTH DISORDERS	Vertigo	-	-	Uncommon
RESPIRATORY,	Cough	-	Uncommon	Uncommon
THORACIC AND	Oroph ryngeal pain	-	Common	Common
MEDIASTINAL	Nhinorrhoea	-	Uncommon	Uncommon
DISORDERS),			
GASTROINTESTINAL	Abdominal pain	-	-	Common
DISORDERS	Nausea	Common	Common	Common
	Vomiting	Common	Common	Common
	Diarrhoea	Common	Uncommon	Uncommon
SKIN AND	Hyperhidrosis	Common	Uncommon	Common
SUBCUTANTOUS TISSUE	Pruritus	-	-	Uncommon
DISORDER				
MAS WIOSKELETAL	Arthralgia	-	Common	Common
AND CONNECTIVE	Myalgia	-	Common	Common
NSSUE DISORDERS	Pain in extremity	_	-	Uncommon

Adverse Reactions (Infants, children and adolescents)						
System Organ Class	Preferred MedDRA	Frequency				
(SOC)	Term	6 - 35 months	3-8 years	9 – 17 years		
GENERAL DISORDERS	Injection site pain	Very common	Very common	Very common		
AND ADMINISTRATION	Injection site induration	Common	Common	Common		
SITE CONDITIONS	Injection site erythema	Common	Common	Common		
	Injection site swelling	Common	Common	Common		
	Injection site	Common	Common	Uncommon		
	hemorrhage					
	Injection site pruritus	-	Uncommon	Uncommon		
	Axillary pain	-	Uncommon	Uncommon		
				$-\mathbf{O}$		
	Fatigue	-	Common	Common		
	Pyrexia	Very Common	Common	Uncommen		
	Chills	-	-	Common		
	Irritability	Very Common	-	~/,		
	Malaise	-	Common	Common		
	Feeling Cold	-	Uncommon	Uncommon		

Post-marketing surveillance

There are no post-marketing surveillance data available for VEPACEI

Celvapan (H1N1)v

From post-marketing surveillance with a whole virion, Vero cell defived, H1N1 vaccine, the following adverse reactions have been reported (the frequency of these adverse reactions is not known as it cannot be estimated from the available data):

Immune system disorders: anaphylactic reaction, by er ensitivity

Nervous system disorders: febrile convulsion

Skin and subcutaneous tissue disorders: angio edema

Muscoluskeletal and connective tissue disorders: pain in extremity

Trivalent seasonal influenza vaccine

The following serious adverse rections have been reported from post-marketing surveillance with egg-derived interpandemic trivilent vaccines:

Uncommon: generalised skin reactions

Rare: neuralgia, transfer thrombocytopenia. Allergic reactions, in rare cases leading to shock, have been reported.

Very rare: vas ultis with transient renal involvement. Neurological disorders, such as encephalomyeritis, neuritis, and Guillain Barré syndrome.

Reporting of suspected adverse reactions

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.

4.9 Overdose

No case of overdose has been reported for VEPACEL.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Influenza vaccines, ATC Code J07BB01

This section describes the clinical experience with the H5N1 vaccine.

Pandemic and Pre-pandemic vaccines contain influenza antigens that are different from those in the currently circulating influenza viruses. These antigens can be considered as 'novel' antigens and simulate a situation where the target population for vaccination is immunologically naïve. Data obtained with the H5N1 vaccines will support a vaccination strategy that is likely to be used for the pandemic vaccine: clinical immunogenicity, safety and reactogenicity data obtained with H5N1 vaccines are relevant for the pandemic and pre-pandemic vaccines.

Adults, older people, and special risk groups

Immune response against A/Vietnam/1203/2004 (H5N1)

The immunogenicity of the A/Vietnam/1203/2004 strain vaccine has been evaluated in three clinical studies in adults aged 18 – 59 years (N=961) and in two clinical studies in subject, aged 60 years and older (N=391) following a 0, 21 day schedule. In addition, the immunogenicity has also been evaluated in a Phase 3 study in specified risk groups of immunocompromised subjects (N=122) and patients with chronic disease conditions (N=123) following a 0, 21 day schedule.

Immunogenicity in adults aged 18 to 59 years (N=961) and in subjects aged 60 years and older (N=391)

After primary vaccination the rate of subjects with neutralising antibody titres > 20, seroconversion rate and seroconversion factor as measured by micropeutralisation assay (MN) in adults aged 18 to 59 years and in older people aged 60 years and above were as follows:

		8 – 59 years 21 Days after		and above ys after
	1 st Dose	2 nd Dose	1 st Dose	2 nd Dose
Seroneutralisation rate*	44.4%	69.7%	51.9%	69.2%
Seroconversion rate**	32.7%	56.0%	13.3%	23.9%
Seroconversion factor***	3.0	4.5	2.0	2.6

^{*} MN titre ≥ 20

Immunogenicity in immunocompromised subjects (N=122) and patients with chronic disease conditions (N=128)

After variation the rate of subjects with neutralising antibody titres \geq 20, seroconversion rate and sero unersion factor as measured by MN assay in immunocompromised subjects and patients with charic disease conditions were as follows:

	Immunocompre	omised subjects	Patients with chronic disease conditions		
	21 Day	ys after	21 Days after		
	1 st Dose	2 nd Dose	1 st Dose	2 nd Dose	
Seroneutralisation rate*	24.8%	41.5%	44.3%	64.2%	
Seroconversion rate**	9.1%	32.2%	17.2%	35.0%	
Seroconversion factor***	1.6	2.5	2.3	3.0	

^{*} MN titre ≥ 20

^{** &}gt; 4-fold increase a Matitre

^{***} geometric mean increase

^{**} \geq 4-fold increase in MN titre

^{***} geometric mean increase

Cross-reactive immune response against related H5N1 strains

In a clinical study in adults aged 18 to 59 years (N=265) and in older people aged 60 years and above (N=270) after vaccination with the A/Vietnam/1203/2004 strain vaccine, the rate of subjects with cross-neutralising antibodies as measured by MN (titre \geq 20) was as follows:

-	18 – 59 years	60 years and above
	Strain A/In	donesia/05/2005
	21 Days after 2nd Dose	21 Days after 2nd Dose
Seroneutralisation rate*	35.1%	54.8%

^{*} MN titre ≥ 20

Heterologous booster vaccinations

A heterologous booster vaccination with a 7.5 µg non-adjuvanted formulation of the A/Indonesia/05/2005 strain vaccine has been administered in a time frame of 12 to 24 mouths after priming vaccination with two doses of the A/Vietnam/1203/2004 strain vaccine in three dinical studies in adults aged 18 to 59 years and in older people aged 60 years and above 1 12 to 24 months heterologous booster has also been administered in a phase 3 study in immunocompromised subjects and patients with chronic disease conditions.

Seroneutralisation rates (MN titre \geq 20) at 21 days after a 12 to 24 months booster vaccination with the 7.5 µg dose of the A/Indonesia/05/2005 strain vaccine, tested against both the homologous and heterologous strains were as follows:

			1 0	
Seroneutralisation rate*	18 - 5	9 years	60 years a	nd above
Tested against	A/Vietnam	A/Indonesia	A/Vietnam	A/Indonesia
12 – 24 months booster	89.8%	86,9%	82.9%	75.3%
* MNI titro > 20				

^{*} MN titre ≥ 20

Seroneutralisation rate*	Immunocompro	mised subjects	Patients with chronic	disease conditions
Tested against	A/Vietnam	A/Indonesia	A/Vietnam	A/Indonesia
12 – 24 months booster	71.6%	65.7%	77.5%	70.8%
# 1.DT.: > 00				

^{*} MN titre ≥ 20

A booster with a 7.5 μ g non-adjuvanted formulation of the A/Indonesia/05/2005 strain vaccine administered 12 months after a single dose priming vaccination with the A/Vietnam/1203/2004 strain vaccine was also evaluated in adults aged 18 to 59 years.

Seroneutralisation rates (MN titre \geq 20) at 21 days after a 12 months booster vaccination with the 7.5 µg doss of the A/Indonesia/05/2005 strain vaccine, tested against both the homologous and heterologous strains were as follows:

Serce stralisation rate*		
Tested against	A/Vietnam	A/Indonesia
2 Month Booster	85.9%	92.9%
* MN titre ≥ 20		

Infants, children, and adolescents

Immune response against A/Vietnam/1203/2004 (H5N1)

The immunogenicity of the A/Vietnam/1203/2004 strain vaccine has been evaluated in a clinical trial in children and adolescents aged 9 to 17 years (N=288), in children aged 3 to 8 years (N=146) and in infants and children aged 6 to 35 months (N=33) following a 0, 21 day schedule.

After vaccination, the rate of subjects with neutralizing antibody titers \geq 20, seroconversion rate and seroconversion factor, as measured by MN assay, in infants, children, and adolescents aged 6 months to 17 years were as follows:

	9 – 17 years		3 –	3 – 8 years		6-35 months	
MN assay	21 D	ays after	21 D	ays after	21 D	ays after	
·	1 st Dose	2 nd Dose	1 st Dose	2 nd Dose	1 st Dose	2 nd Dose	
Seroneutralization rate*	52.6%	85.4%	17.1%	72.9%	3.0%	68.8%	
Seroconversion rate**	9.1%	31.8%	16.4%	72.2%	9.1%	65.6%	
Seroconversion factor***	1.6	3.1	2.1	6.3	1.4	6.8	

^{*} MN titer ≥ 20

Heterologous Booster Vaccinations

A heterologous booster vaccination with a 7.5 μ g non-adjuvanted formulation of the A(Indonesia/05/2005 strain vaccine has been administered 12 months after a priming vaccination with two loses of the A/Vietnam/1203/2004 strain vaccine in children and adolescents aged 9 to 17 years (N=196), children aged 3 to 8 years (N=79) and infants and children aged 6 months to 35 months (N=24)

Seroneutralization rates (MN titer \geq 20) at 21 days after a booster variation with the 7.5 µg dose of the A/Indonesia/05/2005 strain vaccine, tested against both the homologous and heterologous strains, were as follows:

Seroneutralization	9 – 17 years		3-8 years)	6 – 35 month	ns
rate*			\bigcirc			
Tested against	A/Vietnam	A/Indonesia	Vienam	A/Indonesia	A/Vietnam	A/Indonesia
12 Month Booster	94.1%	93.1%	14.7%	97.2%	100.0%	100.0%

^{*} MN titer ≥ 20

Information from non-clinical studie

The protective efficacy of VEPACE, against morbidity and mortality induced by the infection with lethal doses of highly pathogenic avan influenza H5N1 virus was assessed non-clinically in a ferret challenge model.

Sixteen ferrets were divided into two cohorts and were vaccinated on days 0 and 21 with 7.5 µg of the A/Vietnam/1203/2001 vaccine or were sham vaccinated. All ferrets were challenged intranasally on day 35 with a highestose of the highly virulent H5N1 virus strain A/Vietnam/1203/2004 and monitored for 14 cays. Ferrets vaccinated with the 7.5 µg dose of the A/Vietnam/1203/2004 vaccine demonstrated a high rate of seroconversion. The A/Vietnam/1203/2004 vaccine afforded protection against homologous challenge as evidenced by full survival, reduced weight loss, a less pronounced and shorter increase in temperature, a less marked reduction in lymphocyte counts and in reduction of inflammation and necrosis in brain and olfactory bulb in the vaccinated cohorts as compared to control angular. All control animals succumbed to the infection.

5.2 Pharmacokinetic properties

Not applicable.

5.3 Preclinical safety data

Non-clinical studies demonstrated minor alterations in liver enzymes and calcium levels in a repeat dose toxicity study in rats. Clinically significant alterations in liver enzymes and calcium levels have not been seen to date in human clinical studies.

^{** &}gt; 4-fold increase in MN titer

^{***} geometric mean increase

Animal reproductive and developmental toxicology studies do not indicate harmful effects in regard to female fertility, embryo-foetal and pre- and post-natal toxicity.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Trometamol Sodium chloride Water for injections Polysorbate 80

6.2 **Incompatibilities**

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

6.3 Shelf life

2 years

6.4 Special precautions for storage

Store in a refrigerator (2°C to 8°C).

Do not freeze.

Store in the original package in order to protect from light.

Store in the original package in order to protect from light.

Nature and contents of the container 6.5

One pack of 1 single dose pre-filled syringe Type I glass) containing 0.5 ml suspension for injection, with a latex-free plunger stopper (halogend-butyl rubber) without needles.

6.6 Special precautions for disp nd other handling

The vaccine should be allowed to ach room temperature before use. Shake before use. Visually inspect the suspension prior to administration. In case of any particles and/or abnormal appearance, the vaccine should be discarded.

cap, attach the needle immediately and remove the needle shield prior to administrati

is attached, the vaccine must be administered immediately.

vaccine or waste material should be disposed of in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

Ology Bioservices Ireland LTD Wilton Park House Wilton Place Dublin 2 D02P447 Ireland

8. MARKETING AUTHORISATION NUMBER

EU/1/12/752/002

DATE OF FIRST AUTHORISATION / RENEWAL OF THE AUTHORISATION 9.

Date of first authorisation: 17/02/2012 Date of latest renewal: 04/01/2017

DATE OF REVISION OF THE TEXT

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

er authorised

ANNEX II

- MANUFACTURER(S) OF THE BIOLOGICAL ACTIVE SUBSTANCE(S) AND MANUFACTURER(S) RESILVABIBLE FOR BATCH RELEASE A.
- NS REGARDING SUPPLY AND USE B.
- C.
- CONDITION EFFECTIVE TTH REGARD TO THE SAFE AND

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

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

Baxter BioScience s.r.o. Jevany Bohumil 138 CZ-281 63 Kostelec nad Cernymi lesy Czech Republic

Baxter AG Uferstrasse 15 A-2304 Orth/Donau Austria

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

Baxter AG Uferstrasse 15 A-2304 Orth/Donau Austria

B. CONDITIONS OR RESTRICTIONS REGARDING SON LY AND USE

Medicinal product subject to medical prescription (see Annex & Summary of Product Characteristics, section 4.2).

authorised

• Official batch release

In accordance with Article 114 of Directive 201/83/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 Codate Reports

The marketing aut locisation holder shall submit periodic safety update reports for this product in accordance with the requirements set out in the list of Union reference dates (EURD list) provided for under Article 1072(7) of Directive 2001/83/EC and published on the European medicines web-portal.

PSUR spomission when VEPACEL is used during an influenza pandemic:

During a pandemic situation, the frequency of submission of periodic safety update reports specified in Asticle 24 of Regulation (EC) No 726/2004 will not be adequate for the safety monitoring of a pandemic vaccine for which high levels of exposure are expected within a short period of time. Such situation requires rapid notification of safety information that may have the greatest implications for risk-benefit balance in a pandemic. Prompt analysis of cumulative safety information, in light of extent of exposure, will be crucial for regulatory decisions and protection of the population to be vaccinated. In addition, during a pandemic, resources needed for an in-depth evaluation of Periodic Safety Update Reports in the format as defined in Volume 9a of the Rules Governing Medicinal Product in the European Union may not be adequate for a rapid identification of a new safety issue.

In consequence, as soon as the pandemic is declared and the prepandemic vaccine is used, the MAH shall submit more frequent simplified periodic safety update reports with a format and a periodicity defined in the "CHMP Recommendations for the Core Risk Management Plan for Influenza Vaccines prepared from viruses with the potential to cause a pandemic and intended for use outside of the core dossier context" (EMEA/49993/2008), and any subsequent update.

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

• Risk Management Plan (RMP)

The 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.

If the dates for submission of a PSUR and the update of a RMP coincir, they can be submitted at the same time.

ANNEX III
LABELLING AND PACKAGNEAFLET

Nedicinal product no

A LABELLING HOLDER AUTHORISED

A LABELLING HOLDER AUTHORISED

We dicinal product no longer authorised

We dicinal product no longer authorised

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON – 10 DOSE VIAL

1. NAME OF THE MEDICINAL PRODUCT

VEPACEL suspension for injection in multidose container

Prepandemic influenza vaccine (H5N1) (whole virion, inactivated, prepared in cell culture)

2. STATEMENT OF ACTIVE SUBSTANCE(S)

1 dose (0.5 ml) contains:

Onger authoriser

Tell

Tell Influenza virus (whole virion, inactivated) containing antigen of strain: A/Vietnam/1203/2004 (H5N1) 7.5 micrograms

3. LIST OF EXCIPIENTS

Trometamol Sodium Chloride Water for injections Polysorbate 80

PHARMACEUTICAL FORM AND CONTE 4.

Suspension for injection

20 multidose vials

(10 doses of 0.5 ml per vial)

5. **OF ADMINISTRATION METHOD AND RO**

Read the package leafl efore use.

Intramuscular use

The vaccine should be allowed to reach room temperature before use.

Shake before

the vaccine should be used immediately (within 3 hours maximum). After first

WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. **EXPIRY DATE**

EXP

9.	SPECIAL STORAGE CONDITIONS
Do n	e in refrigerator. not freeze. e in the original package in order to protect from light.
10.	SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
Disp	ose of in accordance with local requirements.
11.	NAME AND ADDRESS OF THE MARKETING AUTHORISATION FOR SER
Wilt	P447
12.	MARKETING AUTHORISATION NUMBER(S)
EU/1	1/12/752/001
13.	BATCH NUMBER
Lot	7100°
14.	GENERAL CLASSIFICATION FOR SUPPLY
15.	INSTRUCTIONS ON USE
16.	WORMATION IN BRAILLE
	fication for not including Braille accepted.

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON – PRE-FILLED SYRINGE

1. NAME OF THE MEDICINAL PRODUCT

VEPACEL suspension for injection in a pre-filled syringe

Prepandemic influenza vaccine (H5N1) (whole virion, inactivated, prepared in cell culture)

2. STATEMENT OF ACTIVE SUBSTANCE(S)

1 dose (0.5 ml) contains:

onder authoriser

TS Influenza virus (whole virion, inactivated) containing antigen of strain:

A/Vietnam/1203/2004 (H5N1) 7.5 micrograms

3. LIST OF EXCIPIENTS

Trometamol Sodium Chloride Water for injections Polysorbate 80

PHARMACEUTICAL FORM AND CONTE 4.

Suspension for injection

1 pre-filled syringe (0.5 ml)

5. **METHOD AND ROU** OF ADMINISTRATION

Read the package leaflet

Intramuscular use.

The vaccine shoul wed to reach room temperature before use.

Shake before u

RNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT HE SIGHT AND REACH OF CHILDREN

out of the sight and reach of children.

OTHER SPECIAL WARNING(S), IF NECESSARY 7.

8. **EXPIRY DATE**

EXP

Store in refrigerator. Do not freeze. Store in the original package in order to protect from light.		
10.	SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE	
Dispose of in accordance with local requirements.		
11.	NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER	
Ology Bioservices Ireland LTD Wilton Park House Wilton Place Dublin 2 D02P447 Ireland		
12.	MARKETING AUTHORISATION NUMBER(S)	
EU/1/12/752/002		
13.	BATCH NUMBER	
Lot	dijo	
14.	GENERAL CLASSIFICATION FOR SUPPLY	
14.	GEVERAL CERSSIA CITION FOR SCITE!	
15.	INSTRUCTIONS ON USE	
	iol.	
16.	IN ORMATION IN BRAILLE	
	<u>V</u>	
	cation for not including Braille accepted.	

9.

SPECIAL STORAGE CONDITIONS

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

LABEL FOR 10-DOSE VIAL

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

VEPACEL suspension for injection Prepandemic influenza vaccine (H5N1) I.M.

2. METHOD OF ADMINISTRATION

Shake before use

3. **EXPIRY DATE**

After first opening, use immediately (within 3 hours max)

- John authorised - John authorised - John authorised - John authorised OR BY UNIT

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

LABEL - SINGLE DOSE PRE-FILLED SYRINGE

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

VEPACEL suspension for injection Prepandemic influenza vaccine (H5N1) ΙM

2. METHOD OF ADMINISTRATION

Shake before use

Torised authorised authorised 5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT Pre-filled syringe (0.5ml) 6. OTHER

MINIMUM PARTICULARS ATTACHED TO THE OUTER CARTON OF MULTIDOSE **CONTAINER AND PRE-FILLED SYRINGE** PEEL OFF'S (1 PEEL OFF PER DOSIS) 1. NAME OF THE MEDICINAL PRODUCT Nedicinal product no longer authorised **VEPACEL**

B. PACKAGE LEAFLET BUTTONISE OF BUTTONISE OF

Package leaflet: Information for the user **VEPACEL** suspension for injection

Prepandemic influenza vaccine (H5N1) (whole virion, inactivated, prepared in cell culture)

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 receive this vaccine 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 or nurse.

 If you get any of the side effects, talk to your doctor or nurse. This includes any possible deffects not listed in this leaflet. See section 4.

 It is in this leaflet:

 What VEPACEL is and what it is used for What you need to know before you receive VEPACEL How VEPACEL is given Possible side effects

 How to store VEPACEL

 Contents of the pack and other information

 What VEPACEL is and what it is used for

What is in this leaflet:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

1.

VEPACEL is a vaccine for use in individuals aged onths and older. It is intended to be given before the next influenza (flu) pandemic to prevent flu caused by the H5N1 type of the virus.

Pandemic flu is a type of influenza that occurs every few decades and which spreads rapidly around lu are similar to those of an ordinary flu but are usually more the world. The symptoms of pandem severe.

the immune system (the body's natural defence system) will When a person is given the v produce its own protection bodies) against the disease. None of the ingredients in the vaccine can cause flu.

ACEL may not fully protect all persons who are vaccinated.

need to know before you receive VEPACEL

ld not receive VEPACEL

if you have previously had a severe allergic reaction to any ingredient of VEPACEL (these are listed at the end of the leaflet – section 6) or to any substances that may be present in trace (very low) amounts: formaldehyde, benzonase, sucrose, trypsin, Vero host cell protein. Signs of an allergic reaction may include itchy skin rash, shortness of breath and swelling of the face or tongue. However, in a pandemic situation, it may be appropriate for you to have the vaccine, provided that appropriate medical treatment is immediately available in case of an allergic reaction.

If you are not sure, talk to your doctor or nurse before having this vaccine.

Warnings and precautions

You should tell your doctor before vaccination:

- if you have a severe infection with a high temperature (over 38°C). If this applies to you then your vaccination will usually be postponed until you are feeling better. A minor infection such as a cold should not be problem, but your doctor should advise whether you could still be vaccinated with VEPACEL.
- if you have had any allergic reaction to any ingredient of the vaccine (see section 6 at the end of the leaflet) or trace residues (formaldehyde, benzonase, sucrose, trypsin, Vero host cell protein). Allergic reactions, including sudden life-threatening allergic reactions (anaphylaxis) have been reported following use of a similar vaccine for H1N1 influenza during a pandemic period. Such reactions have occurred both in patients with a history of multiple allergies and in patients with no known allergy.
- if you have a weakened immune system as for example because of immunosuppressive therepy, e.g. taking of corticosteroids or treatment for cancer.
- if you have a bleeding problem or bruise easily.

If you need a blood test to look for evidence of infection with certain viruses in the first few weeks after vaccination with VEPACEL, the result of the test may not be correct. Tell the doctor requesting the test that you have recently received VEPACEL.

The vaccine should never be given into a blood vessel.

In any of these cases, TELL YOUR DOCTOR OR NURSE, as vary hation may not be recommended, or may need to be delayed.

Other medicines and VEPACEL

Please tell your doctor or nurse if you are taking, have recently taken or might take any other medicines, including medicines obtained without a prescription, or if you have recently received any other vaccine.

There is no information on administration of VEPACEL with other vaccines. However, if this cannot be avoided, the other vaccine should not be injected into the same arm used for VEPACEL. You should be aware that side effects may be intensified.

If you take any medicines that educe immunity to infections or have any other type of treatment that affects the immune system (such as radiotherapy), VEPACEL can still be given but your response to the vaccine may be poor

VEPACEL should not be given at the same time as immunoglobulins. However, if this cannot be avoided, the imminoglobulins should not be injected into the same arm used for VEPACEL.

Pregnant breast-feeding

A vot are pregnant or breast-feeding, think you may be pregnant or planning to have a baby, ask your doctor for advice if you should receive VEPACEL.

Driving and using machines

VEPACEL may affect your ability to drive and use machines.

3. **How VEPACEL** is given

Your doctor or nurse will administer the vaccine in accordance with official recommendations. The vaccine will be injected into the muscle of the upper arm (deltoid muscle) or upper thigh, depending on the muscle mass. The vaccine should never be given into a vein.

Infants, children and adolescents from the age of 6 months to 17 years and adults from the age of 18 years:

One dose of 0.5 ml will be given. A second dose of 0.5 ml should be given after an interval of at least three weeks.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets the

In the clinical studies conducted in adults and older people most side effects were mill in short term. The side effects are generally similar to those related to the flu vaccin side effects after the second vaccination compared with the first. The most frequency occurring side The following side effects have been reported in clinical studies in adults and older people.

Very common (affects more than 1 user in 10):

pain at the injection site
fatigue (feeling tired)
headache

Common (affects 1 to 10 users in 100):
runny nose and sore throat
vertigo (a spinning sensation)
pain in mouth and throat
cough
diarrhoea
increased sweating
itching effect was injection- site pain, which was usually mild.

- itching
- pain in joint or r
- fever
- chills
- y feeling unwell)
- iness, swelling or bruising at the injection site
- reduced sensation

n (affects 1 to 10 users in 1,000):

wollen glands

- insomnia (difficulty sleeping)
- dizziness
- sleepiness
- conjunctivitis (an inflammation of the eye), eye irritation
- reduced blood pressure, feeling faint (syncope)
- shortness of breath
- stuffy or runny nose
- dry throat
- vomiting

- feeling sick
- stomach pain, upset stomach
- rash, hives
- chest discomfort
- flu-like illness
- injection-site reaction such as irritation, itching, bruising or stiff arm
- sudden hearing loss

In the clinical studies conducted in infants, children and adolescents, the incidence and nature of symptoms after the first and second vaccination were similar to those occurred in adults and older people.

a)

<u>Very common</u> (affects more than 1 user in 10):

Common (affects 1 to 10 users in 100):

- increased sweating
- hardness, redness, swelling or bruising at the injection site
- The following side effects have Deer reported in clinical studies in children aged 3 to 8 years. b)

ser in 10): Very common (affects more than

pain at the injection s

Common (affects 1 to

- in joint or muscle
 - ardness, redness, swelling or bruising at the injection site
- fatigue (feeling tired)
- fever
- malaise

<u>Uncommon</u> (affects 1 to 10 users in 1,000):

- decreased appetite
- eye irritation
- cough
- runny nose
- diarrhoea
- increased sweating

The following side effects have been reported in a clinical study in infants aged 6 to 35 mont common (affects more than 1 user in 10):
sleepiness
pain at the injection site fever
irritability

mon (affects 1 to 10 users in 100):
runny nose and sore throat decreased appetite sleep disorder
crying feeling sick
vomiting diarrhoea increased sweating

- itching where the injection was given
- pain in the armpit
- feeling cold
- c) The following side effects have been reported in clinical studies in adolescents aged 9 to 17 years.

Very common (affects more than 1 user in 10):

- headache
- pain at the injection site

Common (affects 1 to 10 users in 100):

- runny nose and sore throat
- pain in mouth and throat
- stomach pain
- feeling sick
- vomiting
- increased sweating
- pain in joint or muscle
- hardness, redness or swelling at the injection site
- fatigue (feeling tired)
- chills
- malaise

Uncommon (affects 1 to 10 users in 1,000):

- decreased appetite
- insomnia (difficulty sleeping)
- dizziness
- abnormal, reduced sensation
- vertigo (a spinning sensation)
- cough
- runny nose
- diarrhoea
- itching
- pain in extremity
- bruising at the inject
- n was given itching where the
- pain in the ar
- feeling c

st-marketing data available for VEPACEL.

es observed with a similar influenza vaccine (Celvapan)

e effects listed below have occurred with a similar influenza vaccine (Celvapan) in adults and children during the H1N1 pandemic flu vaccination programme:

- allergic reactions, including anaphylactic reactions leading to a dangerous decrease in blood pressure which, if untreated, may lead to shock
- fits due to fever
- pain in arms and/or legs (in the majority of cases reported as pain in the vaccination arm)
- swelling of tissue just below the skin

Side effects observed with flu vaccines given routinely every year

In the days or weeks after vaccination with vaccines given routinely every year to prevent flu, the side effects listed below have occurred. These side effects may occur with VEPACEL.

Squet no longer authorised square authorised

Uncommon (affects 1 to 10 users in 1,000):

• generalised skin reactions including urticaria (hives)

Rare (affects 1 to 10 users in 10,000):

- allergic reactions leading to a dangerous decrease of blood pressure, which, if untreated, may lead to shock. Doctors are aware of this possibility and have emergency treatment available for use in such cases.
- severe stabbing or throbbing pain along one or more nerves
- low blood platelet count which can result in bleeding or bruising

Very rare (affects less than 1 user in 10,000):

- vasculitis (inflammation of blood vessels which can cause skin rashes, joint pain and kidney problems)
- neurological disorders such as encephalomyelitis (inflammation of the central nervour system) neuritis (inflammation of nerves) and a type of paralysis known as Guillain-Barré Syndrome

Reporting of side effects

If you get any side effects talk to your doctor 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. By reporting side effects you can help provide more information of the safety of this medicine.

5. How to store VEPACEL

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

Do not use this medicine after the expiry date which is tated on the carton and the label. The expiry date refers to the last day of that month.

Store in a refrigerator (2°C - 8°C).

Store in the original package in order to protect from light

Do not freeze.

After first opening, the vaccine stoud be used immediately (within a maximum period of 3 hours).

Do not throw away any mediciles via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help to protect the environment.

6. Contents of the pack and other information

What VEPACEL contains

ne active substance is:

1 dose (0.5 ml) contains:

Influenza virus (whole virion, inactivated), containing antigen of*strain:

A/Vietnam/1203/2004 (H5N1) 7.5 micrograms**

- * produced in Vero cells
- ** haemagglutinin
- The other ingredients are Trometamol Sodium chloride Water for injections Polysorbate 80.

What VEPACEL looks like and contents of the pack

VEPACEL is presented as a suspension for injection in multidose vial (10 doses of 0.5 ml per vial) in pack size of 20 vials.

The suspension is clear to opalescent.

Marketing Authorisation Holder

Ology Bioservices Ireland LTD Wilton Park House Wilton Place Dublin 2 D02P447 Ireland

Manufacturer

Baxter AG Uferstrasse 15 A-2304 Orth/Donau Austria

This leaflet was last revised in

Detailed information on this medicine is available on the burypean Medicines Agency (EMA) web site: http://www.ema.europa.eu/.

The following information is intended for feathcare professionals only:

Multidose vial (10 doses of 0.5 ml per var)

The vaccine should be allowed to each room temperature before use. Shake before use.

After shaking, the vaccine is a clear to opalescent suspension.

Prior to administration. Shally inspect the suspension for any foreign particulate matter and/or abnormal physical appearance. In the event of either being observed, discard the vaccine.

The vaccine sloud not be administered intravascularly.

Any upage Vaccine or waste material should be disposed of in accordance with local requirements.

terfirst opening, the vial is to be used within a maximum of 3 hours.

Each vaccine dose of 0.5 ml is withdrawn into a syringe for injection.

Package leaflet: Information for the user **VEPACEL** suspension for injection

Prepandemic influenza vaccine (H5N1) (whole virion, inactivated, prepared in cell culture)

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 receive this vaccine 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 or nurse.

 If you get any of the side effects, talk to your doctor or nurse. This includes any possible are effects not listed in this leaflet. See section 4.

 It is in this leaflet:

 What VEPACEL is and what it is used for What you need to know before you receive VEPACEL How VEPACEL is given Possible side effects

 How to store VEPACEL

 Contents of the pack and other information

 What VEPACEL is and what it is used for

What is in this leaflet:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

1.

VEPACEL is a vaccine for use in individuals aged onths and older. It is intended to be given before the next influenza (flu) pandemic to prevent flu caused by the H5N1 type of the virus.

Pandemic flu is a type of influenza that occurs every few decades and which spreads rapidly around lu are similar to those of an ordinary flu but are usually more the world. The symptoms of pandem severe.

the immune system (the body's natural defence system) will When a person is given the v produce its own protection nt bodies) against the disease. None of the ingredients in the vaccine can cause flu.

ACEL may not fully protect all persons who are vaccinated.

need to know before you receive VEPACEL

ld not receive VEPACEL

if you have previously had a severe allergic reaction to any ingredient of VEPACEL (these are listed at the end of the leaflet – section 6) or to any substances that may be present in trace (very low) amounts: formaldehyde, benzonase, sucrose, trypsin, Vero host cell protein. Signs of an allergic reaction may include itchy skin rash, shortness of breath and swelling of the face or tongue. However, in a pandemic situation, it may be appropriate for you to have the vaccine, provided that appropriate medical treatment is immediately available in case of an allergic reaction.

If you are not sure, talk to your doctor or nurse before having this vaccine.

Warnings and precautions

You should tell your doctor before vaccination:

- if you have a severe infection with a high temperature (over 38°C). If this applies to you then your vaccination will usually be postponed until you are feeling better. A minor infection such as a cold should not be problem, but your doctor should advise whether you could still be vaccinated with VEPACEL.
- if you have had any allergic reaction to any ingredient of the vaccine (see section 6 at the end of the leaflet) or trace residues (formaldehyde, benzonase, sucrose, trypsin, Vero host cell protein). Allergic reactions, including sudden life-threatening allergic reactions (anaphylaxis) have been reported following use of a similar vaccine for H1N1 influenza during a pandemic period. Such reactions have occurred both in patients with a history of multiple allergies and in patients with no known allergy.
- if you have a weakened immune system as for example because of immunosuppressive therepy, e.g. taking of corticosteroids or treatment for cancer.
- if you have a bleeding problem or bruise easily.

If you need a blood test to look for evidence of infection with certain viruses in the first few weeks after vaccination with VEPACEL, the result of the test may not be correct. Tell the doctor requesting the test that you have recently received VEPACEL.

The vaccine should never be given into a blood vessel. There is no information on the use of VEPACEL under the skin.

In any of these cases, TELL YOUR DOCTOR OR NURSE, as vacciliation may not be recommended, or may need to be delayed.

Other medicines and VEPACEL

Please tell your doctor or nurse if you are taking, have recently taken or might take any other medicines, including medicines obtained without a prescription, or if you have recently received any other vaccine.

There is no information on administration of VEPACEL with other vaccines. However, if this cannot be avoided, the other vaccine should be injected into the same arm used for VEPACEL. You should be aware that side officers may be intensified.

If you take any medicines that reduce immunity to infections or have any other type of treatment that affects the immune system (such as radiotherapy), VEPACEL can still be given but your response to the vaccine may be pro-

VEPACEL should not be given at the same time as immunoglobulins. However, if this cannot be avoided, the immunoglobulins should not be injected into the same arm used for VEPACEL.

Present, breast-feeding and fertility

If you are pregnant or breast-feeding, think you may be pregnant or planning to have a baby, ask your doctor for advice if you should receive VEPACEL.

Driving and using machines

VEPACEL may affect your ability to drive and use machines.

3. **How VEPACEL** is given

Your doctor or nurse will administer the vaccine in accordance with official recommendations. The vaccine will be injected into the muscle of the upper arm (deltoid muscle) or upper thigh, depending on the muscle mass. The vaccine should never be given into a vein.

Infants, children and adolescents from the age of 6 months to 17 years and adults from the age of 18 years:

One dose of 0.5 ml will be given. A second dose of 0.5 ml should be given after an interval of at least three weeks.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets the

In the clinical studies conducted in adults and older people most side effects were mill in short term. The side effects are generally similar to those related to the flu vaccin There were fewer side effects after the second vaccination compared with the first. The most frequency occurring side The following side effects have been reported in clinical studies in adults and older people

Very common (affects more than 1 user in 10):

pain at the injection site
fatigue (feeling tired)
headache

Common (affects 1 to 10 users in 100):
runny nose and sore throat
vertigo (a spinning sensation)
pain in mouth and throat
cough
diarrhoea
increased sweating
itching effect was injection- site pain, which was usually mild.

- itching
- pain in joint or r
- fever
- chills
- y feeling unwell)
- iness, swelling or bruising at the injection site
- reduced sensation

n (affects 1 to 10 users in 1,000):

wollen glands

- insomnia (difficulty sleeping)
- dizziness
- sleepiness
- conjunctivitis (an inflammation of the eye), eye irritation
- reduced blood pressure, feeling faint (syncope)
- shortness of breath
- stuffy nose
- dry throat
- vomiting

- feeling sick
- stomach pain, upset stomach
- rash, hives
- chest discomfort
- flu-like illness
- injection-site reaction such as irritation, itching, bruising or stiff arm
- sudden hearing loss

In the clinical studies conducted in infants, children and adolescents, the incidence and nature of symptoms after the first and second vaccination were similar to those occurred in adults or older people.

a)

Very common (affects more than 1 user in 10):

Common (affects 1 to 10 users in 100):

- increased sweating
- hardness, redness, swelling or bruising at the injection site
- The following side effects have beer reported in clinical studies in children aged 3 to 8 years. b)

ser in 10): Very common (affects more than

pain at the injection s

Common (affects 1 to

- in joint or muscle
 - ardness, redness, swelling or bruising at the injection site
- malaise
- fatigue (feeling tired)

<u>Uncommon</u> (affects 1 to 10 users in 1,000):

- decreased appetite
- eye irritation
- cough
- runny nose
- diarrhoea
- increased sweating

The following side effects have been reported in a clinical study in infants aged 6 to 35 notificommon (affects more than 1 user in 10):
sleepiness
pain at the injection site
fever
irritability

mon (affects 1 to 10 users in 100):
runny nose and sore throat
decreased appetite
sleep disorder
crying
feeling sick
vomiting
diarrhoea
increased sweating
hardness, redness, swelling or bruising the injection site

- itching where the injection was given
- pain in the armpit
- feeling cold
- c) The following side effects have been reported in clinical studies in adolescents aged 9 to 17 years.

<u>Very common</u> (affects more than 1 user in 10):

- headache
- pain at the injection site

Common (affects 1 to 10 users in 100):

- runny nose and sore throat
- pain in mouth and throat
- stomach pain
- feeling sick
- vomiting
- increased sweating
- pain in joint or muscle
- hardness, redness or swelling at the injection site
- fatigue (feeling tired)
- chills
- malaise

<u>Uncommon</u> (affects 1 to 10 users in 1,000):

- decreased appetite
- insomnia (difficulty sleeping)
- dizziness
- abnormal, reduced sensation
- vertigo (a spinning sensation)
- cough
- runny nose
- diarrhoea
- itching
- pain in extremity
- bruising at the injections.
- itching where the injection was given
- pain in the arm
- fever
- feeling co

There are no post-marketing data available for VEPACEL.

Side sobserved with a similar influenza vaccine (Celvapan)

Are tide effects listed below have occurred with a similar influenza vaccine (Celvapan) in adults and children during the H1N1 pandemic flu vaccination programme:

- allergic reactions, including anaphylactic reactions leading to a dangerous decrease in blood pressure which, if untreated, may lead to shock
- fits due to fever
- pain in arms and/or legs (in the majority of cases reported as pain in the vaccination arm)
- swelling of tissue just below the skin

Side effects observed with flu vaccines given routinely every year

In the days or weeks after vaccination with vaccines given routinely every year to prevent flu, the side effects listed below have occurred. These side effects may occur with VEPACEL.

ng at the injection site

in 1,000):
3)

Out 100

18 7

48

Uncommon (affects 1 to 10 users in 1,000):

• generalised skin reactions including urticaria (hives)

Rare (affects 1 to 10 users in 10,000):

- allergic reactions leading to a dangerous decrease of blood pressure, which, if untreated, may lead to shock. Doctors are aware of this possibility and have emergency treatment available for use in such cases.
- severe stabbing or throbbing pain along one or more nerves
- low blood platelet count which can result in bleeding or bruising

Very rare (affects less than 1 user in 10,000):

- vasculitis (inflammation of blood vessels which can cause skin rashes, joint pain and kidney problems)
- neurological disorders such as encephalomyelitis (inflammation of the central nervour system), neuritis (inflammation of nerves) and a type of paralysis known as Guillain-Barré Systeme

Reporting of side effects

If you get any side effects talk to your doctor 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. By reporting side effects you can help provide more information of the safety of this medicine.

5. How to store VEPACEL

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

Do not use this medicine after the expiry date which is tated on the carton and the label. The expiry date refers to the last day of that month.

Store in a refrigerator (2°C - 8°C).

Store in the original package in order to protect from light

Do not freeze.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help to protect the environment.

6. Contents of the ock and other information

What VEPACEI contains

- The active substance is:

Lose (0.5 ml) contains:

influenza virus (whole virion, inactivated), containing antigen of*strain:

Å/Vietnam/1203/2004 (H5N1) 7.5 micrograms**

- * produced in Vero cells
- ** haemagglutinin
- The other ingredients are Trometamol Sodium chloride Water for injections Polysorbate 80.

What VEPACEL looks like and contents of the pack

VEPACEL is presented as a suspension for injection in a pre-filled syringe.

1 pack of a pre-filled syringe containing a single dose of 0.5 ml suspension for injection with a latex-free plunger (halogeno-butyl-rubber) without needles.

The suspension is clear to opalescent.

Marketing Authorisation Holder

Ology Bioservices Ireland LTD Wilton Park House Wilton Place Dublin 2 D02P447 Ireland

Manufacturer

Baxter AG Uferstrasse 15 A-2304 Orth/Donau Austria

This leaflet was last revised in May 2015

onder authorised onder authorised othe European Medicines Agency (EMA) Detailed information on this medicine is available web site: http://www.ema.europa.eu/.

The following information is intended ealthcare professionals only:

The vaccine should be allowed to ach room temperature before use. Shake before use.

After shaking, the vacch clear to opalescent suspension.

sually inspect the suspension for any foreign particulate matter and/or Prior to administration ppearance. In the event of either being observed, discard the vaccine.

ould not be administered intravascularly.

d vaccine or waste material should be disposed of in accordance with local requirements.

After removing the syringe cap, attach the needle immediately and remove the needle shield prior to administration.

Once the needle is attached, the vaccine must be administered immediately.