



## Clinical trial results:

### A Randomized, Observer-blind, Placebo-controlled, Multicenter, Phase 3 Study to Assess the Efficacy, Safety, and Immunogenicity of a Plant-Derived Quadrivalent VLP Influenza Vaccine in Adults 18-64 Years of Age

#### Summary

EudraCT number	2017-001239-38
Trial protocol	DE FI GB
Global end of trial date	09 May 2018

#### Results information

Result version number	v1 (current)
This version publication date	29 September 2023
First version publication date	29 September 2023

#### Trial information

##### Trial identification

Sponsor protocol code	CP-PRO-QVLP-012
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##### Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT03301051
WHO universal trial number (UTN)	-

Notes:

#### Sponsors

Sponsor organisation name	Medicago Inc.
Sponsor organisation address	1020 route de l'Église, bureau 600, Québec, Canada,
Public contact	Medical director, Medicago Inc, +1 418658-9393 x378, clinicaltrialenquiries@medicago.com
Scientific contact	Medical director, Medicago Inc, +1 418658-9393 x378, clinicaltrialenquiries@medicago.com

Notes:

#### Paediatric regulatory details

Is trial part of an agreed paediatric investigation plan (PIP)	No
Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial?	No
Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial?	No

Notes:

## Results analysis stage

Analysis stage	Final
Date of interim/final analysis	09 May 2018
Is this the analysis of the primary completion data?	No
Global end of trial reached?	Yes
Global end of trial date	09 May 2018
Was the trial ended prematurely?	No

Notes:

## General information about the trial

Main objective of the trial:

To evaluate the efficacy, relative to placebo, of a single dose of the Quadrivalent VLP Influenza Vaccine given at a dose of 30 µg / strain, against protocol-defined respiratory illness due to laboratory-confirmed influenza caused by vaccine matched strains.

Protection of trial subjects:

This study was conducted in accordance with the current International Council for Harmonisation (ICH) guidance, Good Clinical Practice (GCP) as established by the ICH (ICH E6 GCP), the European Union Clinical Trials Directive 2001 / 20 / EC, United States (US) 21 Code of Federal Regulations dealing with clinical studies, applicable federal, state, and/or local laws and regulations in the countries where the clinical study was conducted, clinical study contractual obligations, and the principles enunciated in the World Medical Association Declaration of Helsinki.

The Investigator or designee fully informed the subject of the risks and requirements of the study and, during the study, subjects were given any new information that could have affected their decision to continue participation. Subjects were told that their consent to participate in the study was voluntary and that it could be withdrawn at any time with no reason given and without penalty or loss of benefits to which they would otherwise be entitled. Only subjects who were fully able to understand the risks, benefits, and potential adverse events (AEs) of the study, and who provided their consent voluntarily were enrolled. The Investigator or designee answered all questions prior to requesting the subject's signature on the informed consent form (ICF). Subjects had sufficient time to consider the risks and benefits associated with participation in the study prior to signing the ICF. Each subject signed the ICF containing appropriate study and study drug information and was provided a copy of the ICF.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	31 August 2017
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	No

Notes:

## Population of trial subjects

### Subjects enrolled per country

Country: Number of subjects enrolled	Canada: 1801
Country: Number of subjects enrolled	Philippines: 1134
Country: Number of subjects enrolled	Thailand: 1112
Country: Number of subjects enrolled	United States: 4229
Country: Number of subjects enrolled	United Kingdom: 436
Country: Number of subjects enrolled	Finland: 766
Country: Number of subjects enrolled	Germany: 682
Worldwide total number of subjects	10160
EEA total number of subjects	1448

Notes:

<b>Subjects enrolled per age group</b>	
In utero	0
Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	0
Children (2-11 years)	0
Adolescents (12-17 years)	0
Adults (18-64 years)	10160
From 65 to 84 years	0
85 years and over	0

## Subject disposition

### Recruitment

Recruitment details:

Participants were randomized in a 1:1 ratio to receive the Quadrivalent VLP Influenza Vaccine at a dose of 30 µg/strain or the placebo.

### Pre-assignment

Screening details:

Participants were healthy adults 18 to 64 years of age assessed during the 2017-2018 influenza season.

### Period 1

Period 1 title	Overall study (overall period)
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator, Carer, Assessor

### Arms

Are arms mutually exclusive?	Yes
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<b>Arm title</b>	Quadrivalent VLP Vaccine
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Arm description:

Participants received one intramuscular (IM) injection of 0.5 milliliter (mL) of 30 µg/ strain of the Quadrivalent VLP Influenza Vaccine on Day 0.

Arm type	Experimental
Investigational medicinal product name	Quadrivalent VLP Influenza Vaccine
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Single dose of a 30 µg/strain of Quadrivalent VLP Vaccine

<b>Arm title</b>	Placebo
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Arm description:

Participants received one IM injection of 0.5 mL of placebo on Day 0.

Arm type	Placebo
Investigational medicinal product name	Placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection
Routes of administration	Intramuscular use

Dosage and administration details:

Single dose of a placebo.

<b>Number of subjects in period 1</b>	Quadrivalent VLP Vaccine	Placebo
Started	5077	5083
Safety Analysis Set	5064	5072
Vaccinated	5065	5072
Completed	4731	4711
Not completed	346	372
Adverse event, serious fatal	1	1
Consent withdrawn by subject	59	65
Physician decision	1	3
Adverse event, non-fatal	-	4
Other	8	-
Miscellaneous	-	4
Lost to follow-up	263	282
Protocol deviation	1	3
Randomized, not vaccinated	13	10

## Baseline characteristics

### Reporting groups

Reporting group title	Quadrivalent VLP Vaccine
Reporting group description:	
Participants received one intramuscular (IM) injection of 0.5 milliliter (mL) of 30 µg/ strain of the Quadrivalent VLP Influenza Vaccine on Day 0.	
Reporting group title	Placebo
Reporting group description:	
Participants received one IM injection of 0.5 mL of placebo on Day 0.	

Reporting group values	Quadrivalent VLP Vaccine	Placebo	Total
Number of subjects	5077	5083	10160
Age categorical			
Units: Subjects			
In utero	0	0	0
Preterm newborn infants (gestational age < 37 wks)	0	0	0
Newborns (0-27 days)	0	0	0
Infants and toddlers (28 days-23 months)	0	0	0
Children (2-11 years)	0	0	0
Adolescents (12-17 years)	0	0	0
Adults (18-64 years)	5077	5083	10160
From 65-84 years	0	0	0
85 years and over	0	0	0
Gender categorical			
Units: Subjects			
Female	3059	3042	6101
Male	2018	2041	4059
Ethnicity (NIH/ OMB)			
Units: Subjects			
Hispanic or Latino	296	326	622
Not Hispanic or Latino	4779	4751	9530
Unknown or Not Reported	2	6	8
Race (NIH/OMB)			
Units: Subjects			
American Indian or Alaska Native	20	18	38
Asian	1195	1187	2382
Native Hawaiian or Other Pacific Islander	7	6	13
Black or African American	646	623	1269
White	3178	3220	6398
More than one race	23	23	46
Unknown or Not Reported	8	6	14

## End points

### End points reporting groups

Reporting group title	Quadrivalent VLP Vaccine
Reporting group description: Participants received one intramuscular (IM) injection of 0.5 milliliter (mL) of 30 µg/ strain of the Quadrivalent VLP Influenza Vaccine on Day 0.	
Reporting group title	Placebo
Reporting group description: Participants received one IM injection of 0.5 mL of placebo on Day 0.	

### Primary: Number of Occurrences of Protocol-Defined Respiratory Illness Caused by Vaccine-Matched Influenza Strains

End point title	Number of Occurrences of Protocol-Defined Respiratory Illness Caused by Vaccine-Matched Influenza Strains
End point description: Occurrences of protocol-defined respiratory illness caused by vaccine-matched influenza strains were assessed. The vaccine-matched strains included: H1N1 (A/Michigan/45/2015); H3N2 (A/Hong Kong/4801/2014); B/Brisbane (B/ Brisbane/60/2008); and B/Phuket (B/Phuket/3073/2013A). The protocol-defined respiratory illness was determined by the occurrence of at least 1 of the following respiratory symptoms: sneezing, stuffy nose, sore throat, cough, sputum production, wheezing, or difficulty breathing. Occurrences of all matched strains are reported. The Per Protocol (PP) set consisted of the participants who participated in the study until at least the end of the peak period or for at least five months or until the end of the surveillance period.	
End point type	Primary
End point timeframe: Day 14 (post-vaccination) up to ~8 months	

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	4814	4812		
Units: number of cases	110	169		

### Statistical analyses

Statistical analysis title	Statistical Analysis 1
Statistical analysis description: Vaccine Efficacy (VE) of VLP vaccine versus placebo = (1 - attack rate in vaccinated participants [ARV]/attack rate in unvaccinated participants [ARU]) x 100%. The VE success criterion is defined as a >40% lower limit of the two-sided 95% confidence interval (CI).	
Comparison groups	Quadrivalent VLP Vaccine v Placebo

Number of subjects included in analysis	9626
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Vaccine Efficacy
Point estimate	34.9
Confidence interval	
level	95 %
sides	2-sided
lower limit	17.6
upper limit	48.6

### Secondary: Number of Occurrences of Protocol-Defined Respiratory Illness Cases Caused by Any Laboratory Confirmed Influenza Strain

End point title	Number of Occurrences of Protocol-Defined Respiratory Illness Cases Caused by Any Laboratory Confirmed Influenza Strain
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End point description:

Occurrences of protocol-defined respiratory illness due to laboratory-confirmed influenza strain (matched, mismatched, and un-typed) were assessed. A protocol-defined respiratory illness was determined by the occurrence of at least 1 of the following respiratory symptoms: sneezing, stuffy nose, sore throat, cough, sputum production, wheezing, or difficulty breathing. PP set.

End point type	Secondary
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End point timeframe:

Day 14 (post-vaccination) up to ~8 months

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	4814	4812		
Units: number of cases	213	347		

### Statistical analyses

Statistical analysis title	Statistical Analysis 1
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Statistical analysis description:

VE of VLP vaccine versus placebo =  $(1 - ARV/ARU) \times 100\%$ . The VE success criterion is defined as a >40% lower limit of the two-sided 95% CI.

Comparison groups	Quadrivalent VLP Vaccine v Placebo
Number of subjects included in analysis	9626
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Vaccine Efficacy
Point estimate	38.6



Confidence interval	
level	95 %
sides	2-sided
lower limit	27.6
upper limit	48

## Secondary: Number of Occurrences of Laboratory-Confirmed Protocol-Defined Influenza-Like Illness (ILI) Caused by Vaccine- Matched Influenza Strains

End point title	Number of Occurrences of Laboratory-Confirmed Protocol-Defined Influenza-Like Illness (ILI) Caused by Vaccine-Matched Influenza Strains
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End point description:

Occurrences of protocol-defined ILI due to laboratory-confirmed influenza caused by influenza viral types/subtypes that are matched (and/or antigenically similar) to the strains covered in the vaccine formulation were assessed. A participant is considered to have protocol-defined ILI if the participant met at least one of the following pre-defined respiratory symptoms: sore throat, cough, sputum production, wheezing, or difficulty breathing AND at least one of the following systemic symptoms: fever (defined as a temperature > 37.2 °C or > 99.0 °F (degree Fahrenheit), chills, tiredness, headache or myalgia. PP set.

End point type	Secondary
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End point timeframe:

Day 14 (post-vaccination) up to ~8 months

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	4814	4812		
Units: number of cases	98	148		

## Statistical analyses

Statistical analysis title	Statistical Analysis 1
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Statistical analysis description:

VE of VLP vaccine versus placebo =  $(1 - ARV/ARU) \times 100\%$ .

The VE success criterion is defined as a >40% lower limit of the two-sided 95% CI.

Comparison groups	Quadrivalent VLP Vaccine v Placebo
Number of subjects included in analysis	9626
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Vaccine Efficacy
Point estimate	33.8
Confidence interval	
level	95 %
sides	2-sided
lower limit	14.9
upper limit	48.5

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**Secondary: Number of Occurrences of Laboratory-Confirmed ILI Caused by Any Influenza Strain**

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End point title	Number of Occurrences of Laboratory-Confirmed ILI Caused by Any Influenza Strain
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End point description:

Occurrences of laboratory-confirmed ILI caused by any influenza viral strains were assessed. A participant is considered to have protocol-defined ILI if the participant met at least one of the following pre-defined respiratory symptoms: sore throat, cough, sputum production, wheezing, or difficulty breathing AND at least one of the following systemic symptoms: fever (defined as a temperature > 37.2 °C or > 99.0 °F), chills, tiredness, headache or myalgia. PP set.

End point type	Secondary
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End point timeframe:

Day 14 (post-vaccination) up to ~8 months

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End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	4814	4812		
Units: number of cases	178	285		

**Statistical analyses**

Statistical analysis title	Statistical Analysis 1
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Statistical analysis description:

VE of VLP vaccine versus placebo =  $(1 - \text{ARV}/\text{ARU}) \times 100\%$ .

The VE success criterion is defined as a > 40% lower limit of the two- sided 95% CI.

Comparison groups	Placebo v Quadrivalent VLP Vaccine
Number of subjects included in analysis	9626
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Vaccine Efficacy
Point estimate	37.6
Confidence interval	
level	95 %
sides	2-sided
lower limit	25.1
upper limit	48

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**Secondary: Number of Occurrences of Protocol-Defined ILI Cases**

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End point title	Number of Occurrences of Protocol-Defined ILI Cases
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End point description:

Occurrences of protocol-defined ILI cases (confirmed or not) were assessed. A participant is considered

to have protocol-defined ILI if the participant met at least one of the following pre-defined respiratory symptoms: sore throat, cough, sputum production, wheezing, or difficulty breathing AND at least one of the following systemic symptoms: fever (defined as a temperature > 37.2 °C or > 99.0 °F), chills, tiredness, headache or myalgia. PP set.

End point type	Secondary
End point timeframe:	
Day 14 (post-vaccination) up to ~8 months	

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	4814	4812		
Units: number of cases	1576	1679		

## Statistical analyses

Statistical analysis title	Statistical Analysis 1
Statistical analysis description:	
VE of VLP vaccine versus placebo = $(1 - ARV/ARU) \times 100\%$ .	
The VE success criterion is defined as a >40% lower limit of the two-sided 95% CI.	
Comparison groups	Quadrivalent VLP Vaccine v Placebo
Number of subjects included in analysis	9626
Analysis specification	Pre-specified
Analysis type	other
Parameter estimate	Vaccine Efficacy
Point estimate	6.2
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.8
upper limit	11.3

## Secondary: Number of Participants With at Least One Immediate Complaint

End point title	Number of Participants With at Least One Immediate Complaint
End point description:	
Immediate complaints were defined as any solicited local or systemic reactions. Solicited local reactions included: erythema, swelling, and pain at the injection site and solicited systemic reactions included: fever, headache, fatigue, muscle aches, joint aches, chills, a feeling of general discomfort, swelling in the axilla, and swelling in the neck. The Safety Analysis Set (SAS) was defined as all participants who received either the Quadrivalent VLP Influenza Vaccine or the placebo.	
End point type	Secondary
End point timeframe:	
15 minutes post vaccination	

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	5064	5072		
Units: participants	441	377		

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of Participants With At least One Solicited Local and Systemic Reactions

End point title	Number of Participants With At least One Solicited Local and Systemic Reactions
End point description: Participants were monitored for both solicited local reactions (erythema, swelling, and pain at the injection site) and solicited systemic reactions (fever, headache, fatigue, muscle aches, joint aches, chills, a feeling of general discomfort, swelling in the axilla, and swelling in the neck). Any solicited local or systemic immediate complaint was also included. SAS.	
End point type	Secondary
End point timeframe: Day 0 (post-vaccination) up to Day 7	

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	5064	5072		
Units: participants	2776	1723		

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of Participants With ≥ Severe Solicited Local and Systemic Reactions

End point title	Number of Participants With ≥ Severe Solicited Local and Systemic Reactions
End point description: Participants monitored for solicited local reactions (erythema, swelling, and pain at injection site) and solicited systemic reactions (fever, headache, fatigue, muscle aches, joint aches, chills, a feeling of general discomfort, swelling in axilla and neck). Any solicited local or systemic immediate complaint also included. Intensity of solicited reactions: Mild (1)-easily tolerated and does not interfere with usual activity; moderate (2)-interferes with daily activity, but participant is still able to function; severe (3)-incapacitating and participant is unable to work or complete usual activity or potentially life threatening; (4)-likely to be life-threatening if not treated in timely manner, according to Food and Drug Administration (FDA) Guidance for Industry: Toxicity Grading Scale for Healthy Adult and Adolescent Volunteers Enrolled in Preventive Vaccine Clinical Trials. ≥ Severe events: severe and potentially life-threatening events. Any ≥severe solicited reactions reported.	
End point type	Secondary

End point timeframe:

Day 0 (post-vaccination) up to Day 7

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	5064 <sup>[1]</sup>	5072 <sup>[2]</sup>		
Units: participants	75	85		

Notes:

[1] - SAS

[2] - SAS

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of Participants With ≥ Severe Related Solicited Reactions

End point title	Number of Participants With ≥ Severe Related Solicited Reactions
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End point description:

Participants were monitored for solicited local reactions (erythema, swelling, and pain at the injection site) and solicited systemic reactions (fever, headache, fatigue, muscle aches, joint aches, chills, a feeling of general discomfort, swelling in the axilla, and swelling in the neck). The intensity of the solicited reactions was graded according to the FDA Toxicity Grading Scale: mild (1), moderate (2), severe (3) or potentially life threatening (4). The causal relationship with the study vaccine was assessed as "definitely not related" (clearly not related), "probably not related" (no medical evidence), "possibly related" (reasonable possibility of cause and effect), "probably related" (plausible biologic mechanism and temporal relationship) or "definitely related" (direct cause and effect relationship). The ≥ severe events included "severe" and "potentially life-threatening" and the related category included "possibly related", "probably related" and "definitely related".SAS

End point type	Secondary
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End point timeframe:

Day 0 (post-vaccination) up to Day 7

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	5064	5072		
Units: participants	56	62		

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of Participants With Unsolicited Treatment-Emergent Adverse Events (TEAEs)

End point title	Number of Participants With Unsolicited Treatment-Emergent Adverse Events (TEAEs)
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**End point description:**

Participants were monitored for unsolicited TEAEs (e.g., nasopharyngitis, upper respiratory tract infection, headache, and oropharyngeal pain). An adverse event (AE) or adverse experience was defined as any untoward medical occurrence in a participant or clinical investigation participant who was administered a pharmaceutical product, with or without a causal relationship with the treatment. An AE can be any favorable and unintended sign, symptom, or disease temporally associated with the use of a medicinal product, whether or not related to a medicinal product. An AE was considered treatment-emergent if it began on or after the date and time of Study Day 0 vaccination. SAS.

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End point type	Secondary
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**End point timeframe:**

Day 0 (post-vaccination) up to Day 21

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End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	5064	5072		
Units: participants	661	639		

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**Statistical analyses**

No statistical analyses for this end point

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**Secondary: Number of Participants With  $\geq$  Severe Unsolicited TEAEs**

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End point title	Number of Participants With $\geq$ Severe Unsolicited TEAEs
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**End point description:**

The intensity of the unsolicited TEAEs was graded as mild (1)-easily tolerated and does not interfere with usual activity; moderate (2)-interferes with daily activity, but the participant is still able to function; severe (3)-incapacitating and the participant is unable to work or complete usual activity or potentially life threatening; (4)-likely to be life-threatening if not treated in a timely manner, according to the FDA Guidance for Industry: Toxicity Grading Scale for Healthy Adult and Adolescent Volunteers Enrolled in Preventive Vaccine Clinical Trials. The  $\geq$  Severe events included severe and potentially life-threatening events. AE and TEAEs are defined in the outcome measure :Number of Participants With Unsolicited Treatment-Emergent Adverse Events (TEAEs).SAS.

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End point type	Secondary
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**End point timeframe:**

Day 0 (post-vaccination) up to Day 21

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End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	5064	5072		
Units: participants	13	25		

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**Statistical analyses**

No statistical analyses for this end point

### Secondary: Number of Participants With $\geq$ Severe Related Unsolicited Reactions

End point title	Number of Participants With $\geq$ Severe Related Unsolicited Reactions
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End point description:

The intensity of the solicited local and systemic reactions was graded as: mild (1), moderate (2), severe (3) or potentially life threatening (4). The causal relationship with the study vaccine was assessed as "definitely not related" (clearly not related), "probably not related" (no medical evidence), "possibly related" (reasonable possibility of cause and effect), "probably related" (plausible biologic mechanism and temporal relationship) or "definitely related" (direct cause and effect relationship). The  $\geq$  severe events included "severe" and "potentially life-threatening" and the related category included "possibly related", "probably related", and "definitely related." AE and TEAEs are defined in outcome measure: Number of Participants With Unsolicited Treatment-Emergent Adverse Events (TEAEs). SAS.

End point type	Secondary
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End point timeframe:

Day 0 (post-vaccination) up to Day 21

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	5064	5072		
Units: participants	4	6		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Participants With an Occurrence of Death

End point title	Number of Participants With an Occurrence of Death
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End point description:

The number of participants in each treatment group with an occurrence of death was assessed. SAS.

End point type	Secondary
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End point timeframe:

Day 0 up to ~8 months

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	5064	5072		
Units: participants	1	2		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Participants With at Least One Serious TEAE

End point title	Number of Participants With at Least One Serious TEAE
End point description: A serious adverse event (SAE) is an AE that results in death, is life threatening, results in a persistent or significant disability or incapacity, results in or prolongs an existing hospitalization, is a congenital anomaly or birth defect, or is another important medical event. An SAE was considered treatment-emergent if it was aggravated in severity or frequency following the administration of the study vaccine, up to and including the last visit of the study. AE is defined in outcome measure : 'Number of Participants With Unsolicited Treatment-Emergent Adverse Events (TEAEs)'. SAS.	
End point type	Secondary
End point timeframe: Day 0 up to ~8 months	

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	5064	5072		
Units: participants	55	51		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Participants With at Least One AE Leading to Withdrawal

End point title	Number of Participants With at Least One AE Leading to Withdrawal
End point description: An AE or adverse experience was defined as any untoward medical occurrence in a participant or clinical investigation participant who was administered a pharmaceutical product, with or without a causal relationship with the treatment. An AE can be any favorable and unintended sign, symptom, or disease temporally associated with the use of a medicinal product, whether or not related to a medicinal product. The number of participants with at least one adverse event leading to withdrawal was assessed. SAS.	
End point type	Secondary
End point timeframe: Day 0 up to ~8 months	

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	5064	5072		
Units: participants	0	5		



## Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Participants With at Least One New Onset Chronic Diseases (NOCDs)

End point title	Number of Participants With at Least One New Onset Chronic Diseases (NOCDs)
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End point description:

All NOCDs that may plausibly have an allergic, autoimmune or inflammatory component were assessed and reported. Plausibility should be interpreted broadly; the only clear exceptions are degenerative conditions such as osteoarthritis, age-related physiologic changes and life-style diseases. In this context, most cancers, cardiac conditions and kidney diseases should be reported. SAS.

End point type	Secondary
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End point timeframe:

Day 0 up to ~8 months

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	5064	5072		
Units: participants	54	41		

## Statistical analyses

No statistical analyses for this end point

### Secondary: Geometric Mean Titers (GMTs) of Hemagglutination Inhibition (HI) Antibody Response for Each Homologous and Heterologous Influenza Strain

End point title	Geometric Mean Titers (GMTs) of Hemagglutination Inhibition (HI) Antibody Response for Each Homologous and Heterologous Influenza Strain
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End point description:

The GMTs in each treatment group were measured using a HI assay for the homologous strains: H1 A/ Michigan/45/2015 (H1N1), A/Hong Kong/4801/2014 (H3N2), B/Brisbane/60/2008, B/Phuket/3073/2013, and the heterologous strains: A/Brisbane/59/2007 (IVR-148) (H1N1), A/Uruguay/716/2007 (H3N2), B/Florida/4/2006, B/ Malaysia/2506/2004. Immunogenicity Per Protocol (IPP) Set consisted of a subset of participants who participated in the immunogenicity portion of the study, who had a Day 21 immunogenicity sample collection.

End point type	Secondary
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End point timeframe:

Day 0 (pre-vaccination), Day 21

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	278	97		
Units: titers				
geometric mean (confidence interval 95%)				
Homologous (H1N1): Day 0	24.2 (20.7 to 28.3)	30.0 (22.9 to 39.3)		
Homologous (H1N1): Day 21	84.8 (71.4 to 100.8)	27.8 (21.6 to 35.9)		
Homologous (H3N2): Day 0	26.2 (21.8 to 31.4)	29.0 (21.9 to 38.4)		
Homologous (H3N2): Day 21	144.9 (121.9 to 172.4)	28.0 (20.9 to 37.4)		
Homologous (B/Brisbane/60/2008): Day 0	12.8 (11.3 to 14.4)	12.9 (10.6 to 15.7)		
Homologous (B/Brisbane/60/2008): Day 21	28.1 (24.8 to 31.9)	12.1 (10.0 to 14.8)		
Homologous (B/Phuket/3073/2013): Day 0	28.8 (24.5 to 33.9)	28.1 (21.7 to 36.5)		
Homologous (B/Phuket/3073/2013): Day 21	87.8 (74.3 to 103.9)	26.4 (20.4 to 34.1)		
Heterologous (H1N1): Day 0	14.5 (12.7 to 16.6)	14.5 (12.0 to 17.5)		
Heterologous (H1N1): Day 21	16.4 (16.4 to 18.8)	14.4 (11.8 to 17.6)		
Heterologous (H3N2): Day 0	17.2 (14.7 to 20.2)	19.7 (15.4 to 25.3)		
Heterologous (H3N2): Day 21	44.1 (37.1 to 52.3)	17.7 (13.9 to 22.6)		
Heterologous (B/Florida/4/2006): Day 0	26.8 (22.8 to 31.6)	31.5 (24.2 to 41.1)		
Heterologous (B/Florida/4/2006): Day 21	65.3 (55.8 to 76.5)	26.0 (20.1 to 33.7)		
Heterologous (B/Malaysia/2506/2004): Day 0	11.5 (10.2 to 12.9)	10.7 (8.8 to 13.0)		
Heterologous (B/Malaysia/2506/2004): Day 21	24.6 (21.6 to 27.9)	10.6 (8.7 to 12.9)		

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Participants With Seroconversion Measured by HI Antibody Response for Each Homologous and Heterologous Strain

End point title	Percentage of Participants With Seroconversion Measured by HI Antibody Response for Each Homologous and Heterologous Strain
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End point description:

Seroconversion rate: the percentage of participants in a given treatment group with either a  $\geq 4$ -fold increase in reciprocal HI titers between Day 0 and Day 21 or a rise of undetectable HI titer (i.e.  $< 10$ ) pre-vaccination (Day 0) to an HI titer of  $\geq 40$  on Day 21 was measured using an HI assay for the

homologous strains: H1 A/Michigan/45/2015 (H1N1), A/Hong Kong/4801/2014 (H3N2), B/Brisbane/60/2008, B/Phuket/3073/2013, and the heterologous strains: A/ Brisbane/59/2007 (IVR-148) (H1N1), A/Uruguay/716/2007 (H3N2), B/Florida/4/2006, B/Malaysia/2506/2004. IPP set.

End point type	Secondary
End point timeframe:	
Day 0 (pre-vaccination) up to Day 21	

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	278	97		
Units: percentage of participants				
number (confidence interval 95%)				
Homologous (H1N1)	37.1 (31.4 to 43.0)	0 (0 to 0)		
Homologous (H3N2)	46.4 (40.4 to 52.5)	0 (0 to 0)		
Homologous (B/Brisbane/60/2008)	17.6 (13.3 to 22.6)	0 (0 to 0)		
Homologous (B/Phuket/3073/2013)	31.7 (26.2 to 37.5)	0 (0 to 0)		
Heterologous (H1N1)	2.5 (1.0 to 5.1)	0 (0 to 0)		
Heterologous (H3N2)	23.0 (18.2 to 28.4)	0 (0 to 0)		
Heterologous (B/Florida/4/2006)	27.0 (21.9 to 32.6)	0 (0 to 0)		
Heterologous (B/Malaysia/2506/2004)	18.3 (14.0 to 23.4)	0 (0 to 0)		

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Participants With Seroprotection Measured by HI Antibody Response for Each Homologous and Heterologous Strain

End point title	Percentage of Participants With Seroprotection Measured by HI Antibody Response for Each Homologous and Heterologous Strain
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End point description:

Seroprotection rate: the percentage of participants in a given treatment group attaining a reciprocal HI titer of  $\geq 40$  on Day 21 (the percentage of vaccine recipients with a serum HI titer of at least 1:40 following vaccination) was measured using an HI assay for the homologous strains: H1 A/Michigan/45/2015 (H1N1), A/Hong Kong/4801/2014 (H3N2), B/Brisbane/60/2008, B/Phuket/3073/2013, and the heterologous strains: A/Brisbane/59/2007 (IVR-148) (H1N1), A/Uruguay/716/2007 (H3N2), B/Florida/4/2006, B/Malaysia/2506/2004. IPP set.

End point type	Secondary
End point timeframe:	
Day 0 (pre-vaccination) up to Day 21	

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	278	97		
Units: percentage of participants				
number (confidence interval 95%)				
Homologous (H1N1): Day 0	40.6 (34.8 to 46.7)	47.4 (37.2 to 57.8)		
Homologous (H1N1): Day 21	74.8 (69.3 to 79.8)	39.2 (29.4 to 49.6)		
Homologous (H3N2): Day 0	46.4 (40.4 to 52.5)	46.4 (36.2 to 56.8)		
Homologous (H3N2): Day 21	85.3 (80.5 to 89.2)	48.5 (38.2 to 58.8)		
Homologous (B/Brisbane/60/2008): Day 0	19.4 (14.9 to 24.6)	20.6 (13.1 to 30.0)		
Homologous (B/Brisbane/60/2008): Day 21	41.0 (35.2 to 47.0)	15.5 (8.9 to 24.2)		
Homologous (B/Phuket/3073/2013): Day 0	47.5 (41.5 to 53.5)	46.4 (36.2 to 56.8)		
Homologous (B/Phuket/3073/2013): Day 21	76.3 (70.8 to 81.1)	43.3 (33.3 to 53.7)		
Heterologous (H1N1): Day 0	23.4 (18.5 to 28.8)	16.5 (9.7 to 25.4)		
Heterologous (H1N1): Day 21	27.0 (21.9 to 32.6)	16.5 (9.7 to 25.4)		
Heterologous (H3N2): Day 0	31.3 (25.9 to 37.1)	34.0 (24.7 to 44.3)		
Heterologous (H3N2): Day 21	58.6 (52.6 to 64.5)	29.9 (21.0 to 40.0)		
Heterologous (B/Florida/4/2006): Day 0	46.8 (40.8 to 52.8)	48.5 (38.2 to 58.8)		
Heterologous (B/Florida/4/2006): Day 21	70.9 (65.1 to 76.1)	46.4 (36.2 to 56.8)		
Heterologous (B/Malaysia/2506/2004): Day 0	20.1 (15.6 to 25.3)	15.5 (8.9 to 24.2)		
Heterologous (B/Malaysia/2506/2004): Day 21	43.2 (37.3 to 49.2)	13.4 (7.3 to 21.8)		

## Statistical analyses

No statistical analyses for this end point

## Secondary: Geometric Mean Fold Ratio (GMFR) of HI Antibody Response for Each Homologous and Heterologous Strain

End point title	Geometric Mean Fold Ratio (GMFR) of HI Antibody Response for Each Homologous and Heterologous Strain
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End point description:

GMFR, the geometric mean of the ratio of GMTs (Day 21/Day 0) in each treatment group was measured using an HI assay for the homologous strains: H1 A/Michigan/45/2015 (H1N1), A/Hong Kong/4801/2014 (H3N2), B/ Brisbane/60/2008, B/Phuket/3073/2013, and the heterologous strains: A/Brisbane/59/2007 (IVR-148) (H1N1), A/ Uruguay/716/2007 (H3N2), B/Florida/4/2006, B/Malaysia/2506/2004. IPP Set.

End point type	Secondary
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End point timeframe:

Day 0 (pre-vaccination), Day 21

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	278	97		
Units: ratio				
geometric mean (confidence interval 95%)				
Homologous (H1N1)	3.4 (3.0 to 3.9)	1.0 (0.8 to 1.2)		
Homologous (H3N2)	5.5 (4.7 to 6.3)	1.0 (0.8 to 1.3)		
Homologous (B/Brisbane/60/2008)	2.2 (2.0 to 2.4)	0.9 (0.8 to 1.1)		
Homologous (B/Phuket/3073/2013)	3.1 (2.7 to 3.4)	0.9 (0.8 to 1.1)		
Heterologous (H1N1)	1.1 (1.1 to 1.2)	1.0 (0.9 to 1.1)		
Heterologous (H3N2)	2.5 (2.3 to 2.9)	0.9 (0.8 to 1.1)		
Heterologous (B/Florida/4/2006)	2.4 (2.2 to 2.7)	0.9 (0.7 to 1.0)		
Heterologous (B/Malaysia/2506/2004)	2.2 (2.0 to 2.4)	1.0 (0.8 to 1.1)		

### Statistical analyses

No statistical analyses for this end point

### Secondary: GMTs of Microneutralization (MN) Antibody Response for Each Homologous Strain

End point title	GMTs of Microneutralization (MN) Antibody Response for Each Homologous Strain
End point description:	
The GMTs in each treatment group were measured using an MN assay for homologous strains: H1 A/Michigan/45/2015 (H1N1), A/Hong Kong/4801/2014 (H3N2), B/Brisbane/60/2008, B/Phuket/3073/2013. IPP Set.	
End point type	Secondary
End point timeframe:	
Day 0 (pre-vaccination), Day 21	

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	278	97		
Units: titers				
geometric mean (confidence interval 95%)				
Homologous (H1N1): Day 0	88.1 (76.7 to 101.1)	112.3 (91.1 to 138.6)		
Homologous (H1N1): Day 21	366.1 (316.1 to 424.1)	135.7 (110.4 to 166.9)		
Homologous (H3N2): Day 0	46.7 (41.9 to 52.1)	62.1 (53.1 to 72.6)		

Homologous (H3N2): Day 21	120.3 (108.9 to 132.9)	67.2 (57.0 to 79.1)		
Homologous (B/Brisbane/60/2008): Day 0	15.2 (13.8 to 16.7)	14.9 (12.9 to 17.3)		
Homologous (B/Brisbane/60/2008): Day 21	38.2 (34.3 to 42.7)	16.0 (13.7 to 18.6)		
Homologous (B/Phuket/3073/2013): Day 0	18.2 (16.3 to 20.4)	18.9 (16.0 to 22.3)		
Homologous (B/Phuket/3073/2013): Day 21	52.0 (46.1 to 58.6)	21.3 (18.0 to 25.2)		

## Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants With Seroconversion Measured by MN Antibody Response for Each Homologous Strain

End point title	Percentage of Participants With Seroconversion Measured by MN Antibody Response for Each Homologous Strain
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End point description:

Seroconversion rate: the percentage of participants in a given treatment group with either a  $\geq 4$ -fold increase in reciprocal MN titers between Day 0 and Day 21 or a rise of undetectable MN titer (i.e. 7.1) pre-vaccination (Day 0) to an MN titer of  $\geq 28.3$  at Day 21 post-vaccination were measured using an MN assay for homologous strains: H1 A/ Michigan/45/2015 (H1N1), A/Hong Kong/4801/2014 (H3N2), B/Brisbane/60/2008, B/Phuket/3073/2013. IPP set.

End point type	Secondary
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End point timeframe:

Day 0 (pre-vaccination) up to Day 21

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	278	97		
Units: percentage of participants				
number (confidence interval 95%)				
Homologous (H1N1)	41.7 (35.9 to 47.8)	2.1 (0.3 to 7.3)		
Homologous (H3N2)	28.1 (22.9 to 33.7)	0 (0 to 0)		
Homologous (B/Brisbane/60/2008)	30.6 (25.2 to 36.4)	0 (0 to 0)		
Homologous (B/Phuket/3073/2013)	31.3 (25.9 to 37.1)	1.0 (0.0 to 5.6)		

## Statistical analyses

No statistical analyses for this end point

### Secondary: GMFR of MN Antibody Response for Each Homologous Strain

End point title	GMFR of MN Antibody Response for Each Homologous Strain
End point description: GMFR, the geometric mean of the ratio of GMTs (Day 21/Day 0) was measured in each treatment group using an MN assay for the homologous strains: H1 A/Michigan/45/2015 (H1N1), A/Hong Kong/4801/2014 (H3N2), B/ Brisbane/60/2008, and B/Phuket/3073/2013. IPP set.	
End point type	Secondary
End point timeframe: Day 0 (pre-vaccination), Day 21	

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	278	97		
Units: ratio				
geometric mean (confidence interval 95%)				
Homologous (H1N1)	4.0 (3.6 to 4.6)	1.3 (1.1 to 1.6)		
Homologous (H3N2)	2.5 (2.2 to 2.7)	1.2 (1.1 to 1.5)		
Homologous (B/Brisbane/60/2008)	2.5 (2.3 to 2.8)	1.1 (0.9 to 1.2)		
Homologous (B/Phuket/3073/2013)	2.8 (2.6 to 3.1)	1.1 (1.0 to 1.3)		

## Statistical analyses

No statistical analyses for this end point

## Secondary: Geometric Mean Area (GMA) of Single Radial Hemolysis (SRH) Antibody Response for Each Homologous Strain

End point title	Geometric Mean Area (GMA) of Single Radial Hemolysis (SRH) Antibody Response for Each Homologous Strain
End point description: The GMA in each treatment group were measured using an SRH assay for homologous strains: H1 A/Michigan/45/2015 (H1N1), A/Hong Kong/4801/2014 (H3N2), B/Brisbane/60/2008, B/Phuket/3073/2013. The GMA calculations were performed by taking the anti-log of the mean of the log titer transformations. IPP set	
End point type	Secondary
End point timeframe: Day 0 (pre-vaccination), Day 21	

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	278	97		
Units: mm <sup>2</sup>				
geometric mean (confidence interval 95%)				
Homologous (H1N1): Day 0	10.3 (8.7 to 12.1)	15.4 (12.0 to 19.8)		

Homologous (H1N1): Day 21	31.4 (27.6 to 35.7)	20.9 (16.4 to 26.6)		
Homologous (H3N2): Day 0	15.6 (12.9 to 18.8)	19.3 (14.2 to 26.1)		
Homologous (H3N2): Day 21	56.0 (50.2 to 62.5)	28.4 (21.2 to 38.1)		
Homologous (B/Brisbane/60/2008): Day 0	8.2 (6.9 to 9.9)	6.8 (5.0 to 9.3)		
Homologous (B/Brisbane/60/2008): Day 21	31.9 (27.4 to 37.1)	9.3 (6.7 to 12.9)		
Homologous (B/Phuket/3073/2013): Day 0	11.4 (9.5 to 13.7)	11.7 (8.8 to 15.7)		
Homologous (B/Phuket/3073/2013): Day 21	36.7 (31.9 to 42.1)	15.5 (11.5 to 20.8)		

## Statistical analyses

No statistical analyses for this end point

## Secondary: Percentage of Participants With Seroconversion Measured by SRH Antibody Response for Each Homologous Strain

End point title	Percentage of Participants With Seroconversion Measured by SRH Antibody Response for Each Homologous Strain
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End point description:

Seroconversion rate: the percentage of participants in a given treatment group showing at least 50 % increase in GMA between Days 0 and 21 were measured using a SRH assay for homologous strains: H1 A/Michigan/45/2015 (H1N1), A/ Hong Kong/4801/2014 (H3N2), B/Brisbane/60/2008, B/Phuket/3073/2013. IPP set.

End point type	Secondary
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End point timeframe:

Day 0 (pre-vaccination) up to Day 21

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	278	97		
Units: Percentage of Participants				
number (confidence interval 95%)				
Homologous (H1N1)	53.6 (47.5 to 59.6)	14.4 (8.1 to 23.0)		
Homologous (H3N2)	48.2 (42.2 to 54.2)	14.4 (8.1 to 23.0)		
Homologous (B/Brisbane/60/2008)	45.7 (39.7 to 51.7)	9.3 (4.3 to 16.9)		
Homologous (B/Phuket/3073/2013)	47.1 (41.1 to 53.2)	12.4 (6.6 to 20.6)		

## Statistical analyses



No statistical analyses for this end point

### Secondary: Percentage of Participants With Seroprotection Measured by SRH Antibody Response for Each Homologous Strain

End point title	Percentage of Participants With Seroprotection Measured by SRH Antibody Response for Each Homologous Strain
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End point description:

Seroprotection rate: the percentage of participants in a given treatment group attaining an area  $\geq 25$  mm<sup>2</sup> following vaccination (Day 21) were measured using an SRH assay for homologous strains: H1 A/Michigan/45/2015 (H1N1), A/ Hong Kong/4801/2014 (H3N2), B/Brisbane/60/2008, B/Phuket/3073/2013. IPP set.

End point type	Secondary
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End point timeframe:

Day 0 (pre-vaccination) up to Day 21

End point values	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	278	97		
Units: Percentage of Participants				
number (confidence interval 95%)				
Homologous (H1N1): Day 0	36.3 (30.7 to 42.3)	42.3 (32.3 to 52.7)		
Homologous (H1N1): Day 21	75.9 (70.4 to 80.8)	57.7 (47.3 to 67.7)		
Homologous (H3N2): Day 0	54.7 (48.6 to 60.6)	57.7 (47.3 to 67.7)		
Homologous (H3N2): Day 21	92.1 (88.3 to 95.0)	74.2 (64.3 to 82.6)		
Homologous (B/Brisbane/60/2008): Day 0	40.3 (34.5 to 46.3)	37.1 (27.5 to 47.5)		
Homologous (B/Brisbane/60/2008): Day 21	81.3 (76.2 to 85.7)	45.4 (35.2 to 55.8)		
Homologous (B/Phuket/3073/2013): Day 0	47.5 (41.5 to 53.5)	44.3 (34.2 to 54.8)		
Homologous (B/Phuket/3073/2013): Day 21	81.7 (76.6 to 86.0)	54.6 (44.2 to 64.8)		

### Statistical analyses

No statistical analyses for this end point

### Secondary: GMFR of SRH Antibody Response for Each Homologous Strain

End point title	GMFR of SRH Antibody Response for Each Homologous Strain
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End point description:

GMFR, the geometric mean of the ratio of GMTs (Day 21/Day 0) was measured in each treatment group using an SRH assay for the homologous strains: H1 A/Michigan/45/2015 (H1N1), A/Hong Kong/4801/2014 (H3N2), B/Brisbane/60/2008, and B/Phuket/3073/2013.IPP set.

End point type	Secondary
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End point timeframe:

Day 0 (pre-vaccination), Day 21

<b>End point values</b>	Quadrivalent VLP Vaccine	Placebo		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	278	97		
Units: Ratio				
geometric mean (confidence interval 95%)				
Homologous (H1N1)	2.9 (2.6 to 3.2)	1.6 (1.3 to 1.9)		
Homologous (H3N2)	3.5 (3.1 to 3.9)	1.6 (1.4 to 2.0)		
Homologous (B/Brisbane/60/2008)	4.0 (3.5 to 4.5)	1.3 (1.0 to 1.6)		
Homologous (B/Phuket/3073/2013)	3.2 (2.9 to 3.6)	1.3 (1.1 to 1.6)		

### Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Day 0 (post-vaccination) up to ~8 months

Adverse event reporting additional description:

SAS. The unsolicited serious adverse events (SAEs), unsolicited non-serious adverse events (NSAEs), and all deaths were reported.

Assessment type	Systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	20.1
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### Reporting groups

Reporting group title	Quadrivalent VLP Vaccine
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Reporting group description:

Participants received one IM injection of 0.5 mL of 30 µg/strain of the Quadrivalent VLP Influenza Vaccine or placebo on Day 0.

Reporting group title	Placebo
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Reporting group description:

Participants received one IM injection of 0.5 mL of placebo on Day 0.

Serious adverse events	Quadrivalent VLP Vaccine	Placebo	
Total subjects affected by serious adverse events			
subjects affected / exposed	55 / 5064 (1.09%)	51 / 5072 (1.01%)	
number of deaths (all causes)	1	2	
number of deaths resulting from adverse events			
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Breast cancer			
subjects affected / exposed	0 / 5064 (0.00%)	2 / 5072 (0.04%)	
occurrences causally related to treatment / all	0 / 0	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Breast cancer metastatic			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Colon cancer			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	

Gastrointestinal stromal cancer subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Invasive ductal breast carcinoma subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Malignant pleural effusion subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 1	
Vascular disorders			
Aortic dissection subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Deep vein thrombosis subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Peripheral artery thrombosis subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Peripheral venous disease subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pregnancy, puerperium and perinatal conditions			
Abortion spontaneous subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	

Pre-eclampsia			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Premature delivery			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
General disorders and administration site conditions			
Chest pain			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Chills			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Complication associated with device			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Non-cardiac chest pain			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pyrexia			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Immune system disorders			
Anaphylactic reaction			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	

Reproductive system and breast disorders			
Menorrhagia			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Uterine polyp			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Respiratory, thoracic and mediastinal disorders			
Dyspnoea			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pulmonary embolism			
subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pulmonary mass			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 1	
Respiratory failure			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Psychiatric disorders			
Alcohol withdrawal syndrome			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Borderline personality disorder			

subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Completed suicide			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Drug abuse			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Suicide attempt			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Investigations			
Blood potassium decreased			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hepatic enzyme increased			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Injury, poisoning and procedural complications			
Abdominal wound dehiscence			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cervical vertebral fracture			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 1	

Comminuted fracture			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Facial bones fracture			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Head injury			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Intentional overdose			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Laceration			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Lumbar vertebral fracture			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Meniscus injury			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Radius fracture			
subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Skin abrasion			



subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Snake bite			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cardiac disorders			
Acute myocardial infarction			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Coronary artery disease			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Coronary artery occlusion			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Extrasystoles			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Nervous system disorders			
Cerebrovascular accident			
subjects affected / exposed	1 / 5064 (0.02%)	2 / 5072 (0.04%)	
occurrences causally related to treatment / all	0 / 1	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Dizziness			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Headache			

subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hypoesthesia			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Migraine			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Syncope			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Transient ischemic attack			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Blood and lymphatic system disorders			
Haemorrhagic anaemia			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Thrombocytopenia			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Ear and labyrinth disorders			
Meniere's disease			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gastrointestinal disorders			

Colitis			
subjects affected / exposed	0 / 5064 (0.00%)	2 / 5072 (0.04%)	
occurrences causally related to treatment / all	0 / 0	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Diarrhoea			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gastroesophageal reflux disease			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Intestinal obstruction			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Large intestine perforation			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Large intestine polyp			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pancreatitis			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Small intestinal obstruction			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Volvulus			

subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hepatobiliary disorders			
Cholelithiasis			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Skin and subcutaneous tissue disorders			
Night sweats			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Renal and urinary disorders			
End stage renal disease			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Nephrolithiasis			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Renal artery stenosis			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Stag horn calculus			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Ureterolithiasis			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	

Musculoskeletal and connective tissue disorders			
Groin pain			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Intervertebral disc degeneration			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Intervertebral disc protrusion			
subjects affected / exposed	1 / 5064 (0.02%)	2 / 5072 (0.04%)	
occurrences causally related to treatment / all	0 / 1	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Osteoarthritis			
subjects affected / exposed	1 / 5064 (0.02%)	2 / 5072 (0.04%)	
occurrences causally related to treatment / all	0 / 1	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Osteochondrosis			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Osteonecrosis			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Spinal column stenosis			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Spondylolisthesis			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	

Infections and infestations Abscess limb subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	1 / 5064 (0.02%) 0 / 1 0 / 0	1 / 5072 (0.02%) 0 / 1 0 / 0	
Anorectal infection subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	0 / 5064 (0.00%) 0 / 0 0 / 0	1 / 5072 (0.02%) 0 / 1 0 / 0	
Appendicitis subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	2 / 5064 (0.04%) 0 / 2 0 / 0	1 / 5072 (0.02%) 0 / 1 0 / 0	
Bronchitis subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	0 / 5064 (0.00%) 0 / 0 0 / 0	2 / 5072 (0.04%) 0 / 2 0 / 0	
Cellulitis subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	1 / 5064 (0.02%) 0 / 1 0 / 0	0 / 5072 (0.00%) 0 / 0 0 / 0	
Clostridium difficile colitis subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	0 / 5064 (0.00%) 0 / 0 0 / 0	1 / 5072 (0.02%) 0 / 1 0 / 0	
Diverticulitis subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	1 / 5064 (0.02%) 0 / 1 0 / 0	0 / 5072 (0.00%) 0 / 0 0 / 0	
Influenza subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all	2 / 5064 (0.04%) 0 / 2 0 / 0	2 / 5072 (0.04%) 0 / 2 0 / 0	
Myelitis			

subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Otitis media acute			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pharyngitis streptococcal			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pneumonia			
subjects affected / exposed	3 / 5064 (0.06%)	3 / 5072 (0.06%)	
occurrences causally related to treatment / all	0 / 3	0 / 3	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pulmonary tuberculosis			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pyelonephritis			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Sepsis			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Tonsillitis			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Tooth abscess			

subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Urinary tract infection			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	

Frequency threshold for reporting non-serious adverse events: 0 %

<b>Non-serious adverse events</b>	Quadrivalent VLP Vaccine	Placebo	
Total subjects affected by non-serious adverse events			
subjects affected / exposed	930 / 5064 (18.36%)	918 / 5072 (18.10%)	
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Basal cell carcinoma			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Large intestine benign neoplasm			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Uterine leiomyoma			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Vascular disorders			
Circulatory collapse			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Flushing			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Haematoma			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Hot flush			



subjects affected / exposed	3 / 5064 (0.06%)	1 / 5072 (0.02%)	
occurrences (all)	3	1	
Hypertension			
subjects affected / exposed	18 / 5064 (0.36%)	16 / 5072 (0.32%)	
occurrences (all)	18	16	
Hypertensive crisis			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences (all)	1	1	
Hypotension			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Lymphoedema			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Peripheral coldness			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Peripheral venous disease			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Thrombophlebitis			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Vasculitis			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
General disorders and administration site conditions			
Influenza like illness			
subjects affected / exposed	82 / 5064 (1.62%)	87 / 5072 (1.72%)	
occurrences (all)	102	122	
Asthenia			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Axillary pain			

subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)
occurrences (all)	2	0
Chest discomfort		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Chest pain		
subjects affected / exposed	2 / 5064 (0.04%)	5 / 5072 (0.10%)
occurrences (all)	2	5
Chills		
subjects affected / exposed	19 / 5064 (0.38%)	13 / 5072 (0.26%)
occurrences (all)	19	13
Cyst		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Discomfort		
subjects affected / exposed	2 / 5064 (0.04%)	2 / 5072 (0.04%)
occurrences (all)	2	2
Drug withdrawal syndrome		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Facial pain		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Fatigue		
subjects affected / exposed	28 / 5064 (0.55%)	29 / 5072 (0.57%)
occurrences (all)	32	29
Feeling hot		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Hangover		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Inflammation		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Injection site bruising		

subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Injection site erythema		
subjects affected / exposed	3 / 5064 (0.06%)	2 / 5072 (0.04%)
occurrences (all)	3	2
Injection site haematoma		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Injection site hypersensitivity		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Injection site hypoaesthesia		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Injection site inflammation		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Injection site oedema		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Injection site pain		
subjects affected / exposed	29 / 5064 (0.57%)	8 / 5072 (0.16%)
occurrences (all)	29	8
Injection site pruritus		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Injection site reaction		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Injection site swelling		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Injection site warmth		
subjects affected / exposed	3 / 5064 (0.06%)	0 / 5072 (0.00%)
occurrences (all)	3	0
Injury associated with device		

subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Malaise subjects affected / exposed occurrences (all)	5 / 5064 (0.10%) 5	5 / 5072 (0.10%) 5	
Oedema peripheral subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	1 / 5072 (0.02%) 1	
Pain subjects affected / exposed occurrences (all)	4 / 5064 (0.08%) 4	3 / 5072 (0.06%) 3	
Peripheral swelling subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	1 / 5072 (0.02%) 1	
Pyrexia subjects affected / exposed occurrences (all)	11 / 5064 (0.22%) 11	13 / 5072 (0.26%) 14	
Swelling subjects affected / exposed occurrences (all)	3 / 5064 (0.06%) 3	7 / 5072 (0.14%) 7	
Vaccination site haematoma subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Immune system disorders Allergy to animal subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Allergy to arthropod bite subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Allergy to arthropod sting subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Drug hypersensitivity subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	0 / 5072 (0.00%) 0	

Food allergy subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Hypersensitivity subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	3 / 5072 (0.06%) 3	
Seasonal allergy subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	2 / 5072 (0.04%) 2	
Social circumstances Sexual abuse subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Reproductive system and breast disorders Amenorrhoea subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Bartholin's cyst subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Dysmenorrhoea subjects affected / exposed occurrences (all)	3 / 5064 (0.06%) 3	4 / 5072 (0.08%) 4	
Genital rash subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Menopausal symptoms subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Menorrhagia subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	1 / 5072 (0.02%) 2	
Metrorrhagia subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	2 / 5072 (0.04%) 2	
Nipple pain			

subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Ovarian cyst			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Prostatitis			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Testicular torsion			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Vaginal haemorrhage			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Respiratory, thoracic and mediastinal disorders			
Allergic cough			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Allergic sinusitis			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Asthma			
subjects affected / exposed	3 / 5064 (0.06%)	4 / 5072 (0.08%)	
occurrences (all)	3	4	
Chronic obstructive pulmonary disease			
subjects affected / exposed	3 / 5064 (0.06%)	2 / 5072 (0.04%)	
occurrences (all)	3	2	
Cough			
subjects affected / exposed	39 / 5064 (0.77%)	41 / 5072 (0.81%)	
occurrences (all)	39	43	
Dry throat			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Dysphonia			

subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Dyspnoea		
subjects affected / exposed	8 / 5064 (0.16%)	4 / 5072 (0.08%)
occurrences (all)	8	4
Dyspnoea exertional		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Epistaxis		
subjects affected / exposed	4 / 5064 (0.08%)	4 / 5072 (0.08%)
occurrences (all)	4	6
Increased upper airway secretion		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Nasal congestion		
subjects affected / exposed	49 / 5064 (0.97%)	28 / 5072 (0.55%)
occurrences (all)	51	29
Nasal discomfort		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Nasal pruritus		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Nasal septum deviation		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Organising pneumonia		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Oropharyngeal discomfort		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Oropharyngeal pain		
subjects affected / exposed	54 / 5064 (1.07%)	57 / 5072 (1.12%)
occurrences (all)	56	61
Painful respiration		

subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Paranasal sinus discomfort		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Pharyngeal erythema		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Pharyngeal paraesthesia		
subjects affected / exposed	2 / 5064 (0.04%)	1 / 5072 (0.02%)
occurrences (all)	2	1
Pharyngeal ulceration		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Pleurisy		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Productive cough		
subjects affected / exposed	9 / 5064 (0.18%)	7 / 5072 (0.14%)
occurrences (all)	10	7
Rales		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Respiratory disorder		
subjects affected / exposed	24 / 5064 (0.47%)	28 / 5072 (0.55%)
occurrences (all)	25	28
Respiratory distress		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Respiratory symptom		
subjects affected / exposed	1 / 5064 (0.02%)	2 / 5072 (0.04%)
occurrences (all)	1	2
Respiratory tract congestion		
subjects affected / exposed	0 / 5064 (0.00%)	2 / 5072 (0.04%)
occurrences (all)	0	2
Rhinitis allergic		



subjects affected / exposed	10 / 5064 (0.20%)	5 / 5072 (0.10%)	
occurrences (all)	10	5	
Rhinorrhoea			
subjects affected / exposed	40 / 5064 (0.79%)	39 / 5072 (0.77%)	
occurrences (all)	42	40	
Sinus congestion			
subjects affected / exposed	1 / 5064 (0.02%)	4 / 5072 (0.08%)	
occurrences (all)	1	4	
Sinus pain			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Sneezing			
subjects affected / exposed	26 / 5064 (0.51%)	18 / 5072 (0.35%)	
occurrences (all)	27	18	
Sputum discoloured			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Sputum increased			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Throat irritation			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences (all)	1	1	
Tonsillar disorder			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Upper respiratory tract congestion			
subjects affected / exposed	0 / 5064 (0.00%)	2 / 5072 (0.04%)	
occurrences (all)	0	2	
Wheezing			
subjects affected / exposed	2 / 5064 (0.04%)	4 / 5072 (0.08%)	
occurrences (all)	2	4	
Psychiatric disorders			
Affect lability			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	

Anxiety			
subjects affected / exposed	3 / 5064 (0.06%)	7 / 5072 (0.14%)	
occurrences (all)	3	7	
Attention deficit/hyperactivity disorder			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Bipolar disorder			
subjects affected / exposed	0 / 5064 (0.00%)	2 / 5072 (0.04%)	
occurrences (all)	0	2	
Depression			
subjects affected / exposed	3 / 5064 (0.06%)	5 / 5072 (0.10%)	
occurrences (all)	3	5	
Insomnia			
subjects affected / exposed	8 / 5064 (0.16%)	5 / 5072 (0.10%)	
occurrences (all)	8	5	
Major depression			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences (all)	1	1	
Panic attack			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Sleep disorder			
subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)	
occurrences (all)	2	0	
Investigations			
Blood cholesterol increased			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Blood creatinine increased			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Blood iron decreased			
subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)	
occurrences (all)	2	0	
Blood magnesium decreased			

subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Blood oestrogen decreased		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Blood pressure decreased		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Blood pressure diastolic increased		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Blood pressure increased		
subjects affected / exposed	5 / 5064 (0.10%)	0 / 5072 (0.00%)
occurrences (all)	5	0
Body temperature increased		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Cardiac murmur		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Electrocardiogram QT prolonged		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Glomerular filtration rate decreased		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	2	0
Influenza B virus test positive		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Progesterone decreased		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Respiratory rate increased		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Vitamin B12 decreased		

subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Vitamin D decreased subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Injury, poisoning and procedural complications			
Animal bite subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	4 / 5072 (0.08%) 4	
Animal scratch subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Arthropod bite subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	2 / 5072 (0.04%) 2	
Arthropod sting subjects affected / exposed occurrences (all)	3 / 5064 (0.06%) 3	1 / 5072 (0.02%) 1	
Back injury subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	2 / 5072 (0.04%) 2	
Burns second degree subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Concussion subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Contusion subjects affected / exposed occurrences (all)	5 / 5064 (0.10%) 7	3 / 5072 (0.06%) 3	
Craniocerebral injury subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Eye injury			

subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Fall		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Foot fracture		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Foreign body in eye		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Hand fracture		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Jaw fracture		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Joint dislocation		
subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)
occurrences (all)	2	0
Laceration		
subjects affected / exposed	3 / 5064 (0.06%)	1 / 5072 (0.02%)
occurrences (all)	3	1
Ligament sprain		
subjects affected / exposed	4 / 5064 (0.08%)	7 / 5072 (0.14%)
occurrences (all)	4	7
Limb injury		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Mucosal excoriation		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Multiple injuries		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Muscle strain		

subjects affected / exposed	5 / 5064 (0.10%)	5 / 5072 (0.10%)
occurrences (all)	6	5
Periorbital haematoma		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Post procedural swelling		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Post-traumatic pain		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Postoperative fever		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Procedural nausea		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Procedural pain		
subjects affected / exposed	5 / 5064 (0.10%)	10 / 5072 (0.20%)
occurrences (all)	5	10
Radius fracture		
subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)
occurrences (all)	2	0
Rib fracture		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Road traffic accident		
subjects affected / exposed	2 / 5064 (0.04%)	1 / 5072 (0.02%)
occurrences (all)	2	1
Skin abrasion		
subjects affected / exposed	2 / 5064 (0.04%)	2 / 5072 (0.04%)
occurrences (all)	2	2
Soft tissue injury		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Superficial injury of eye		

subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Thermal burn subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Tooth fracture subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	0 / 5072 (0.00%) 0	
Wrist fracture subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Wound subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	2 / 5072 (0.04%) 2	
Cardiac disorders			
Arrhythmia subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	2 / 5072 (0.04%) 3	
Atrial fibrillation subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	1 / 5072 (0.02%) 1	
Cardiac failure subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Cardiac flutter subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Myocardial ischaemia subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Palpitations subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	2 / 5072 (0.04%) 2	
Nervous system disorders			
Amnesia			

subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Aphonia		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Burning sensation		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Carotid artery stenosis		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Carpal tunnel syndrome		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Dizziness		
subjects affected / exposed	11 / 5064 (0.22%)	9 / 5072 (0.18%)
occurrences (all)	11	9
Facial paralysis		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Headache		
subjects affected / exposed	113 / 5064 (2.23%)	111 / 5072 (2.19%)
occurrences (all)	132	127
Hyperaesthesia		
subjects affected / exposed	3 / 5064 (0.06%)	0 / 5072 (0.00%)
occurrences (all)	3	0
Hypoaesthesia		
subjects affected / exposed	2 / 5064 (0.04%)	2 / 5072 (0.04%)
occurrences (all)	2	2
Intercostal neuralgia		
subjects affected / exposed	2 / 5064 (0.04%)	2 / 5072 (0.04%)
occurrences (all)	2	2
Loss of consciousness		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Migraine		



subjects affected / exposed	5 / 5064 (0.10%)	6 / 5072 (0.12%)	
occurrences (all)	5	6	
Muscle contractions involuntary			
subjects affected / exposed	1 / 5064 (0.02%)	3 / 5072 (0.06%)	
occurrences (all)	1	3	
Neuropathy peripheral			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences (all)	1	1	
Paraesthesia			
subjects affected / exposed	3 / 5064 (0.06%)	1 / 5072 (0.02%)	
occurrences (all)	3	1	
Presyncope			
subjects affected / exposed	3 / 5064 (0.06%)	1 / 5072 (0.02%)	
occurrences (all)	3	1	
Retinal migraine			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Sciatica			
subjects affected / exposed	1 / 5064 (0.02%)	4 / 5072 (0.08%)	
occurrences (all)	1	4	
Sensory loss			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Syncope			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Tension headache			
subjects affected / exposed	2 / 5064 (0.04%)	1 / 5072 (0.02%)	
occurrences (all)	2	1	
Blood and lymphatic system disorders			
Anaemia			
subjects affected / exposed	2 / 5064 (0.04%)	1 / 5072 (0.02%)	
occurrences (all)	2	1	
Lymph node pain			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences (all)	1	1	

Lymphadenitis subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	1 / 5072 (0.02%) 1	
Lymphadenopathy subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	5 / 5072 (0.10%) 5	
Ear and labyrinth disorders			
Cerumen impaction subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Ear pain subjects affected / exposed occurrences (all)	4 / 5064 (0.08%) 4	5 / 5072 (0.10%) 8	
Excessive cerumen production subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
External ear inflammation subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Hypoacusis subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Tinnitus subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	2 / 5072 (0.04%) 2	
Tympanic membrane perforation subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Vertigo subjects affected / exposed occurrences (all)	4 / 5064 (0.08%) 4	4 / 5072 (0.08%) 4	
Vertigo positional subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	3 / 5072 (0.06%) 3	
Eye disorders			

Cataract		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Conjunctival haemorrhage		
subjects affected / exposed	0 / 5064 (0.00%)	2 / 5072 (0.04%)
occurrences (all)	0	2
Corneal opacity		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Dry eye		
subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)
occurrences (all)	2	0
Eye discharge		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Eye irritation		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Eye paraesthesia		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Eye pruritus		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Eye swelling		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Glaucoma		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Keratitis		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Lacrimation increased		
subjects affected / exposed	0 / 5064 (0.00%)	3 / 5072 (0.06%)
occurrences (all)	0	3

Ocular hyperaemia subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	2 / 5072 (0.04%) 2	
Photokeratitis subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Retinal detachment subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Visual impairment subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Gastrointestinal disorders			
Abdominal discomfort subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Abdominal distension subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Abdominal pain subjects affected / exposed occurrences (all)	10 / 5064 (0.20%) 10	4 / 5072 (0.08%) 4	
Abdominal pain upper subjects affected / exposed occurrences (all)	3 / 5064 (0.06%) 3	2 / 5072 (0.04%) 2	
Acid peptic disease subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Barrett's oesophagus subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	0 / 5072 (0.00%) 0	
Coeliac disease subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Colitis			

subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Constipation		
subjects affected / exposed	1 / 5064 (0.02%)	3 / 5072 (0.06%)
occurrences (all)	1	3
Dental caries		
subjects affected / exposed	3 / 5064 (0.06%)	1 / 5072 (0.02%)
occurrences (all)	3	1
Diarrhoea		
subjects affected / exposed	14 / 5064 (0.28%)	20 / 5072 (0.39%)
occurrences (all)	14	22
Dyspepsia		
subjects affected / exposed	1 / 5064 (0.02%)	4 / 5072 (0.08%)
occurrences (all)	1	4
Enteritis		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Flatulence		
subjects affected / exposed	3 / 5064 (0.06%)	0 / 5072 (0.00%)
occurrences (all)	3	0
Food poisoning		
subjects affected / exposed	0 / 5064 (0.00%)	2 / 5072 (0.04%)
occurrences (all)	0	2
Gastric ulcer		
subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)
occurrences (all)	2	0
Gastric ulcer perforation		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Gastritis		
subjects affected / exposed	2 / 5064 (0.04%)	1 / 5072 (0.02%)
occurrences (all)	2	1
Gastrointestinal disorder		
subjects affected / exposed	1 / 5064 (0.02%)	2 / 5072 (0.04%)
occurrences (all)	1	2
Gastrointestinal inflammation		

subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Gastrooesophageal reflux disease		
subjects affected / exposed	3 / 5064 (0.06%)	5 / 5072 (0.10%)
occurrences (all)	3	5
Gingival swelling		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Glossodynia		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Haematochezia		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Haemorrhoids		
subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)
occurrences (all)	2	0
Hypoaesthesia oral		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Inguinal hernia		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Irritable bowel syndrome		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Mouth ulceration		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Nausea		
subjects affected / exposed	21 / 5064 (0.41%)	10 / 5072 (0.20%)
occurrences (all)	21	10
Noninfective gingivitis		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Odynophagia		

subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Paraesthesia oral			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Proctalgia			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Rectal haemorrhage			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Stomatitis			
subjects affected / exposed	0 / 5064 (0.00%)	3 / 5072 (0.06%)	
occurrences (all)	0	3	
Tooth impacted			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Toothache			
subjects affected / exposed	5 / 5064 (0.10%)	4 / 5072 (0.08%)	
occurrences (all)	5	4	
Umbilical hernia			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Uvulitis			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Vomiting			
subjects affected / exposed	13 / 5064 (0.26%)	9 / 5072 (0.18%)	
occurrences (all)	13	9	
Hepatobiliary disorders			
Cholecystitis			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Skin and subcutaneous tissue disorders			
Acne			

subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Actinic keratosis		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Cold urticaria		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Dermal cyst		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Dermatitis allergic		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Dermatitis contact		
subjects affected / exposed	2 / 5064 (0.04%)	1 / 5072 (0.02%)
occurrences (all)	2	1
Dry skin		
subjects affected / exposed	2 / 5064 (0.04%)	1 / 5072 (0.02%)
occurrences (all)	2	1
Eczema		
subjects affected / exposed	0 / 5064 (0.00%)	4 / 5072 (0.08%)
occurrences (all)	0	4
Erythema		
subjects affected / exposed	2 / 5064 (0.04%)	1 / 5072 (0.02%)
occurrences (all)	2	1
Guttate psoriasis		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Hidradenitis		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Hyperhidrosis		
subjects affected / exposed	2 / 5064 (0.04%)	2 / 5072 (0.04%)
occurrences (all)	2	2
Ingrown hair		



subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Night sweats		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	2
Pityriasis rosea		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Pruritus		
subjects affected / exposed	2 / 5064 (0.04%)	5 / 5072 (0.10%)
occurrences (all)	2	5
Pruritus generalised		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Psoriasis		
subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)
occurrences (all)	2	0
Rash		
subjects affected / exposed	6 / 5064 (0.12%)	6 / 5072 (0.12%)
occurrences (all)	6	7
Rash generalised		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Rash macular		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Rash maculo-papular		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Rash pruritic		
subjects affected / exposed	1 / 5064 (0.02%)	4 / 5072 (0.08%)
occurrences (all)	1	4
Skin exfoliation		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Skin lesion		

subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Swelling face subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Urticaria subjects affected / exposed occurrences (all)	3 / 5064 (0.06%) 3	4 / 5072 (0.08%) 4	
Renal and urinary disorders			
Dysuria subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Hypertonic bladder subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	0 / 5072 (0.00%) 0	
Nephrolithiasis subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	1 / 5072 (0.02%) 1	
Renal cyst subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Urinary retention subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Endocrine disorders			
Hyperthyroidism subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Hypogonadism subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Hypothyroidism subjects affected / exposed occurrences (all)	3 / 5064 (0.06%) 3	2 / 5072 (0.04%) 2	
Thyroid cyst			

subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Musculoskeletal and connective tissue disorders			
Arthralgia			
subjects affected / exposed	17 / 5064 (0.34%)	17 / 5072 (0.34%)	
occurrences (all)	19	17	
Arthritis			
subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)	
occurrences (all)	2	0	
Back pain			
subjects affected / exposed	22 / 5064 (0.43%)	18 / 5072 (0.35%)	
occurrences (all)	23	18	
Bursa disorder			
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)	
occurrences (all)	0	1	
Costochondritis			
subjects affected / exposed	1 / 5064 (0.02%)	2 / 5072 (0.04%)	
occurrences (all)	1	2	
Fibromyalgia			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Flank pain			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences (all)	1	1	
Gouty arthritis			
subjects affected / exposed	1 / 5064 (0.02%)	2 / 5072 (0.04%)	
occurrences (all)	1	2	
Intervertebral disc degeneration			
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)	
occurrences (all)	1	0	
Intervertebral disc protrusion			
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)	
occurrences (all)	1	1	
Joint instability			

subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	2
Limb mass		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Muscle disorder		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Muscle spasms		
subjects affected / exposed	1 / 5064 (0.02%)	3 / 5072 (0.06%)
occurrences (all)	1	3
Muscular weakness		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Musculoskeletal chest pain		
subjects affected / exposed	0 / 5064 (0.00%)	2 / 5072 (0.04%)
occurrences (all)	0	3
Musculoskeletal discomfort		
subjects affected / exposed	0 / 5064 (0.00%)	2 / 5072 (0.04%)
occurrences (all)	0	2
Musculoskeletal pain		
subjects affected / exposed	9 / 5064 (0.18%)	3 / 5072 (0.06%)
occurrences (all)	9	3
Musculoskeletal stiffness		
subjects affected / exposed	2 / 5064 (0.04%)	3 / 5072 (0.06%)
occurrences (all)	2	3
Myalgia		
subjects affected / exposed	28 / 5064 (0.55%)	28 / 5072 (0.55%)
occurrences (all)	28	28
Myalgia intercostal		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Myofascial pain syndrome		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Neck pain		

subjects affected / exposed	7 / 5064 (0.14%)	3 / 5072 (0.06%)
occurrences (all)	7	3
Osteoarthritis		
subjects affected / exposed	0 / 5064 (0.00%)	3 / 5072 (0.06%)
occurrences (all)	0	3
Osteoporosis		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Pain in extremity		
subjects affected / exposed	13 / 5064 (0.26%)	6 / 5072 (0.12%)
occurrences (all)	15	6
Pain in jaw		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Periarthritis		
subjects affected / exposed	0 / 5064 (0.00%)	2 / 5072 (0.04%)
occurrences (all)	0	2
Plantar fasciitis		
subjects affected / exposed	0 / 5064 (0.00%)	2 / 5072 (0.04%)
occurrences (all)	0	2
Psoriatic arthropathy		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Rotator cuff syndrome		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Spinal osteoarthritis		
subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)
occurrences (all)	2	0
Spinal pain		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Synovial cyst		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Tendon disorder		

subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Tendonitis subjects affected / exposed occurrences (all)	3 / 5064 (0.06%) 3	0 / 5072 (0.00%) 0	
Torticollis subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Infections and infestations Upper respiratory tract infection subjects affected / exposed occurrences (all)	126 / 5064 (2.49%) 139	117 / 5072 (2.31%) 126	
Abscess limb subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	2 / 5072 (0.04%) 2	
Abscess of eyelid subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Acarodermatitis subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Acute sinusitis subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	3 / 5072 (0.06%) 3	
Atypical pneumonia subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	1 / 5072 (0.02%) 1	
Bacterial infection subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Bacterial vaginosis subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Bacterial vulvovaginitis subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	

Balanitis candida		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Bronchitis		
subjects affected / exposed	13 / 5064 (0.26%)	25 / 5072 (0.49%)
occurrences (all)	13	25
Bullous impetigo		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Carbuncle		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Cellulitis		
subjects affected / exposed	4 / 5064 (0.08%)	1 / 5072 (0.02%)
occurrences (all)	4	1
Chronic sinusitis		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Clostridium difficile infection		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Conjunctivitis		
subjects affected / exposed	4 / 5064 (0.08%)	7 / 5072 (0.14%)
occurrences (all)	4	7
Conjunctivitis bacterial		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Cystitis		
subjects affected / exposed	6 / 5064 (0.12%)	2 / 5072 (0.04%)
occurrences (all)	6	2
Diarrhoea infectious		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Diverticulitis		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0

Ear infection		
subjects affected / exposed	3 / 5064 (0.06%)	4 / 5072 (0.08%)
occurrences (all)	3	5
Epididymitis		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Eye infection		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Fungal infection		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Fungal skin infection		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Furuncle		
subjects affected / exposed	2 / 5064 (0.04%)	0 / 5072 (0.00%)
occurrences (all)	2	0
Gastroenteritis		
subjects affected / exposed	10 / 5064 (0.20%)	20 / 5072 (0.39%)
occurrences (all)	10	21
Gastroenteritis viral		
subjects affected / exposed	3 / 5064 (0.06%)	2 / 5072 (0.04%)
occurrences (all)	3	2
Gastrointestinal infection		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Gastrointestinal viral infection		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Gingivitis		
subjects affected / exposed	1 / 5064 (0.02%)	2 / 5072 (0.04%)
occurrences (all)	1	2
Gonorrhoea		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1



Hepatitis infectious mononucleosis subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0
Herpes simplex subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1
Herpes zoster subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	2 / 5072 (0.04%) 2
Hordeolum subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	1 / 5072 (0.02%) 1
Impetigo subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0
Infectious mononucleosis subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0
Influenza subjects affected / exposed occurrences (all)	8 / 5064 (0.16%) 8	5 / 5072 (0.10%) 5
Kidney infection subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	1 / 5072 (0.02%) 1
Labyrinthitis subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0
Laryngitis subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	1 / 5072 (0.02%) 1
Localised infection subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	3 / 5072 (0.06%) 3
Lower respiratory tract infection subjects affected / exposed occurrences (all)	3 / 5064 (0.06%) 4	4 / 5072 (0.08%) 4

Mastitis		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Measles		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Nasopharyngitis		
subjects affected / exposed	56 / 5064 (1.11%)	55 / 5072 (1.08%)
occurrences (all)	57	57
Oral herpes		
subjects affected / exposed	6 / 5064 (0.12%)	2 / 5072 (0.04%)
occurrences (all)	7	2
Oral infection		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	2	0
Oropharyngeal candidiasis		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Osteomyelitis		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Otitis externa		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Otitis media		
subjects affected / exposed	6 / 5064 (0.12%)	3 / 5072 (0.06%)
occurrences (all)	6	3
Paronychia		
subjects affected / exposed	3 / 5064 (0.06%)	0 / 5072 (0.00%)
occurrences (all)	3	0
Pelvic inflammatory disease		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Pericoronitis		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1

Periodontitis		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Peritonitis		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Pharyngitis		
subjects affected / exposed	10 / 5064 (0.20%)	11 / 5072 (0.22%)
occurrences (all)	10	12
Pharyngitis streptococcal		
subjects affected / exposed	11 / 5064 (0.22%)	7 / 5072 (0.14%)
occurrences (all)	12	7
Pharyngotonsillitis		
subjects affected / exposed	2 / 5064 (0.04%)	2 / 5072 (0.04%)
occurrences (all)	2	2
Pilonidal cyst		
subjects affected / exposed	1 / 5064 (0.02%)	1 / 5072 (0.02%)
occurrences (all)	1	1
Pneumonia		
subjects affected / exposed	8 / 5064 (0.16%)	11 / 5072 (0.22%)
occurrences (all)	8	12
Pulmonary tuberculosis		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Rash pustular		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Respiratory tract infection		
subjects affected / exposed	8 / 5064 (0.16%)	2 / 5072 (0.04%)
occurrences (all)	8	2
Respiratory tract infection viral		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Rhinitis		
subjects affected / exposed	31 / 5064 (0.61%)	27 / 5072 (0.53%)
occurrences (all)	38	32

Sinusitis		
subjects affected / exposed	24 / 5064 (0.47%)	18 / 5072 (0.35%)
occurrences (all)	26	18
Skin candida		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Skin infection		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Staphylococcal infection		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Systemic viral infection		
subjects affected / exposed	1 / 5064 (0.02%)	3 / 5072 (0.06%)
occurrences (all)	1	3
Tonsillitis		
subjects affected / exposed	8 / 5064 (0.16%)	5 / 5072 (0.10%)
occurrences (all)	8	5
Tooth abscess		
subjects affected / exposed	0 / 5064 (0.00%)	7 / 5072 (0.14%)
occurrences (all)	0	7
Tooth infection		
subjects affected / exposed	4 / 5064 (0.08%)	3 / 5072 (0.06%)
occurrences (all)	4	3
Upper respiratory tract infection bacterial		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Urinary tract infection		
subjects affected / exposed	12 / 5064 (0.24%)	12 / 5072 (0.24%)
occurrences (all)	14	12
Urosepsis		
subjects affected / exposed	0 / 5064 (0.00%)	1 / 5072 (0.02%)
occurrences (all)	0	1
Vaginal infection		

subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Varicella zoster virus infection subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Viral infection subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	2 / 5072 (0.04%) 2	
Viral pharyngitis subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Viral sinusitis subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Viral tonsillitis subjects affected / exposed occurrences (all)	1 / 5064 (0.02%) 1	0 / 5072 (0.00%) 0	
Viral upper respiratory tract infection subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	5 / 5072 (0.10%) 5	
Vulvovaginal mycotic infection subjects affected / exposed occurrences (all)	3 / 5064 (0.06%) 3	0 / 5072 (0.00%) 0	
Wound infection subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	2 / 5072 (0.04%) 2	
Metabolism and nutrition disorders			
Decreased appetite subjects affected / exposed occurrences (all)	3 / 5064 (0.06%) 3	0 / 5072 (0.00%) 0	
Dehydration subjects affected / exposed occurrences (all)	0 / 5064 (0.00%) 0	1 / 5072 (0.02%) 1	
Diabetes mellitus inadequate control subjects affected / exposed occurrences (all)	2 / 5064 (0.04%) 2	0 / 5072 (0.00%) 0	

Gout		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Hypercholesterolaemia		
subjects affected / exposed	2 / 5064 (0.04%)	3 / 5072 (0.06%)
occurrences (all)	2	3
Hyperlipidaemia		
subjects affected / exposed	0 / 5064 (0.00%)	2 / 5072 (0.04%)
occurrences (all)	0	2
Hyperuricaemia		
subjects affected / exposed	0 / 5064 (0.00%)	2 / 5072 (0.04%)
occurrences (all)	0	2
Hypoglycaemia		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Hypokalaemia		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Malnutrition		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Obesity		
subjects affected / exposed	1 / 5064 (0.02%)	0 / 5072 (0.00%)
occurrences (all)	1	0
Type 2 diabetes mellitus		
subjects affected / exposed	3 / 5064 (0.06%)	3 / 5072 (0.06%)
occurrences (all)	3	3
Vitamin D deficiency		
subjects affected / exposed	2 / 5064 (0.04%)	1 / 5072 (0.02%)
occurrences (all)	2	1

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
13 September 2017	Major changes in the conduct of the study are described as follows: <ul style="list-style-type: none"><li>• The inclusion criteria no. 7 (acceptable contraceptive methods) was generalized to support the use of different regional acceptable methods of contraception in a single protocol and details of these regional acceptable contraceptive methods were presented in a new appendix in the protocol.</li><li>• Clarification regarding the needle length to use to administer the study treatments to subjects based on their BMI was included in the protocol.</li></ul>

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported

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### Online references

<http://www.ncbi.nlm.nih.gov/pubmed/33065035>