



## Clinical trial results:

### A Phase III, Multicenter, Open-Label Study to Assess Efficacy, Safety, Pharmacokinetics and Immunogenicity of Abatacept Administered Intravenously in Japanese Children and Adolescents with Active Juvenile Idiopathic Arthritis Who Have a History of an Inadequate Response or Intolerance to Methotrexate or Biologics

#### Summary

EudraCT number	2016-000940-32
Trial protocol	Outside EU/EEA
Global end of trial date	

#### Results information

Result version number	v1 (current)
This version publication date	16 February 2019
First version publication date	16 February 2019

#### Trial information

##### Trial identification

Sponsor protocol code	IM101365
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##### Additional study identifiers

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

Notes:

#### Sponsors

Sponsor organisation name	Bristol-Myers Squibb
Sponsor organisation address	Chaussée de la Hulpe 185, Brussels, Belgium, 1170
Public contact	EU Study Start-Up Unit, Bristol-Myers Squibb International Corporation,, clinical.trials@bms.com
Scientific contact	Bristol-Myers Squibb Study Director, Bristol-Myers Squibb, Clinical.Trials@bms.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?	Yes

Notes:

## Results analysis stage

Analysis stage	Interim
Date of interim/final analysis	30 January 2019
Is this the analysis of the primary completion data?	No

Global end of trial reached?	No
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Notes:

## General information about the trial

Main objective of the trial:

The primary objective was to assess the primary efficacy as assessed by American College of Rheumatology (ACR) Pediatric (Ped) 30 response rate at Day 113 in Japanese active polyarticular-course Juvenile idiopathic arthritis (JIA) subjects.

Protection of trial subjects:

The study was in compliance with the ethical principles derived from the Declaration of Helsinki and in compliance with all International Conference on Harmonization Good Clinical Practice Guidelines. All the local regulatory requirements pertinent to safety of trial subjects were followed.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	12 September 2013
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	Yes

Notes:

## Population of trial subjects

### Subjects enrolled per country

Country: Number of subjects enrolled	Japan: 20
Worldwide total number of subjects	20
EEA total number of subjects	0

Notes:

### Subjects enrolled per age group

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)	11
Adolescents (12-17 years)	9
Adults (18-64 years)	0
From 65 to 84 years	0
85 years and over	0

## Subject disposition

### Recruitment

Recruitment details: -

### Pre-assignment

Screening details:

23 participants were enrolled and 20 participants were treated. Reason for non-treatment was that 3 participants no longer met study criteria.

### Period 1

Period 1 title	Short Term Treatment Period (to Week 16)
Is this the baseline period?	Yes
Allocation method	Non-randomised - controlled
Blinding used	Not blinded

### Arms

Arm title	Abatacept
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Arm description:

Abatacept 10 mg/kg (for body weight less than 75 kg), 750 mg (for body weight between 75 and 100 kg), and 1g (for body weight above 100kg) intravenous infusion on Week 0 (Day 1), Week 2 (Day 15), Week 4 (Day 29) and every 4 weeks (28 days) thereafter up to the end of the study

Arm type	Experimental
Investigational medicinal product name	Abatacept
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Infusion
Routes of administration	Intravenous use

Dosage and administration details:

10 mg/kg per infusion for subjects weighing < 75 kg, 750 mg for subjects weighing 75 to 100 kg and 1000 mg for subjects weighing >100 kg.

Subjects were to be dosed on Day 1 (Week 0), Day 15 (Week 2), Day 29 (Week 4) and every 28 days thereafter for the duration of the study.

<b>Number of subjects in period 1</b>	Abatacept
Started	20
Completed	20

**Period 2**

Period 2 title	Long Term Treatment Period
Is this the baseline period?	No
Allocation method	Not applicable
Blinding used	Not blinded

**Arms**

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

Abatacept 10 mg/kg (for body weight less than 75 kg), 750 mg (for body weight between 75 and 100 kg), and 1g (for body weight above 100kg) intravenous infusion on Week 0 (Day 1), Week 2 (Day 15), Week 4 (Day 29) and every 4 weeks (28 days) thereafter up to the end of the study

Arm type	Experimental
No investigational medicinal product assigned in this arm	

<b>Number of subjects in period 2</b>	Abatacept
Started	20
Completed	16
Not completed	4
Subject Request to Discontinue	1
Lack of efficacy	3

## Baseline characteristics

### Reporting groups

Reporting group title	Abatacept
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Reporting group description:

Abatacept 10 mg/kg (for body weight less than 75 kg), 750 mg (for body weight between 75 and 100 kg), and 1g (for body weight above 100kg) intravenous infusion on Week 0 (Day 1), Week 2 (Day 15), Week 4 (Day 29) and every 4 weeks (28 days) thereafter up to the end of the study

Reporting group values	Abatacept	Total	
Number of subjects	20	20	
Age Categorical			
Units: Subjects			
<=18 years	20	20	
Between 18 and 65 years	0	0	
>=65 years	0	0	
Age Continuous			
Units: years			
arithmetic mean	10.2		
standard deviation	± 3.24	-	
Sex: Female, Male			
Units: Subjects			
Female	15	15	
Male	5	5	
Race/Ethnicity, Customized			
Japan			
Units: Subjects			
Japanese	20	20	

## End points

### End points reporting groups

Reporting group title	Abatacept
Reporting group description:	
Abatacept 10 mg/kg (for body weight less than 75 kg), 750 mg (for body weight between 75 and 100 kg), and 1g (for body weight above 100kg) intravenous infusion on Week 0 (Day 1), Week 2 (Day 15), Week 4 (Day 29) and every 4 weeks (28 days) thereafter up to the end of the study	
Reporting group title	Abatacept
Reporting group description:	
Abatacept 10 mg/kg (for body weight less than 75 kg), 750 mg (for body weight between 75 and 100 kg), and 1g (for body weight above 100kg) intravenous infusion on Week 0 (Day 1), Week 2 (Day 15), Week 4 (Day 29) and every 4 weeks (28 days) thereafter up to the end of the study	

### Primary: Percentage of Participants Experiencing a American College of Rheumatology (ACR) Pediatric 30 response at Week 16

End point title	Percentage of Participants Experiencing a American College of Rheumatology (ACR) Pediatric 30 response at Week 16 <sup>[1]</sup>
End point description:	
American College of Rheumatology (ACR) pediatric (PED) 30 response was defined as '≥30% improvement' and '≥3 of the 6 Juvenile Idiopathic Arthritis (JIA) core set' and ≥30% worsening in not more than 1 of the 6 JIA core set variables. JIA core set variables defined as the number of active joints, number of joints with Limit of Motion (LOM), physician's global assessment of disease severity, patient global assessment of overall well being, parent assessment of physical function, and acute phase reactant value. A non-responder imputation was applied.	
End point type	Primary
End point timeframe:	
Week 16 (Day 113)	
Notes:	
[1] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.	
Justification: Only summary statistics planned for this endpoint.	

End point values	Abatacept			
Subject group type	Reporting group			
Number of subjects analysed	20			
Units: percentage of participants				
number (confidence interval 95%)	90.0 (68.3 to 98.8)			

### Statistical analyses

No statistical analyses for this end point

### Secondary: Percentage of Participants Experiencing a American College of Rheumatology Pediatric 50, 70, 90 Response or Inactive Disease at Week 16

End point title	Percentage of Participants Experiencing a American College of Rheumatology Pediatric 50, 70, 90 Response or Inactive Disease at Week 16
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**End point description:**

ACR PED 50 response is defined as '≥50% improvement' and '≥3 of the 6 Juvenile Idiopathic Arthritis (JIA) core set' and ≥30% worsening in not more than 1 of the 6 JIA core set variables. ACR PED 70 response is defined as '≥70% improvement' and '≥3 of the 6 JIA core set' and ≥30% worsening in not more than 1 of the 6 JIA core set variables. ACR PED 90 response is defined as '≥90% improvement' and '≥3 of the 6 JIA core set' and ≥30% worsening in not more than 1 of the 6 JIA core set variables. Inactive disease status is defined as no active joints, physician's global assessment of disease severity equal or less than 10mm and C-reactive protein (CRP) within normal limits (0.3 mg/dL). A non-responder imputation is applied. mm=millimeter; mg/dL=milligrams/deciliter

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End point type	Secondary
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End point timeframe:

Week 16 (Day 113)

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End point values	Abatacept			
Subject group type	Reporting group			
Number of subjects analysed	20			
Units: percentage of participants				
number (confidence interval 95%)				
ACR PED 50	75.0 (50.9 to 91.3)			
ACR PED 70	70.0 (45.7 to 88.1)			
ACR PED 90	35.0 (15.4 to 59.2)			
Inactive Disease	25.0 (8.7 to 49.1)			

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**Statistical analyses**

No statistical analyses for this end point

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**Secondary: Median Percentage of Improvement from Baseline in Physical Function as Assessed by the Childhood Health Assessment Questionnaire (CHAQ) Disability Index at Week 16**

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End point title	Median Percentage of Improvement from Baseline in Physical Function as Assessed by the Childhood Health Assessment Questionnaire (CHAQ) Disability Index at Week 16
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End point description:

Physical function was evaluated using the disability section of the Childhood Health Assessment Questionnaire (CHAQ). The questionnaire was derived from the adult HAQ. The disability section assessed physical functions in 8 domains: dressing and grooming, arising, eating, walking, hygiene, reach, grip and common activities. The questions were evaluated on a 4-point scale: 0 = without any difficulty, 1 = with some difficulty, 2 = with much difficulty and 3 =unable to do. Higher scores indicate greater dysfunction. A disability index was calculated as the mean of the 8 functional scales. The percentage of Improvement from baseline was calculated using the following equation: (Baseline value - Post-baseline value) / Baseline value x 100.

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End point type	Secondary
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End point timeframe:

Week 16 (Day 113)

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<b>End point values</b>	Abatacept			
Subject group type	Reporting group			
Number of subjects analysed	20			
Units: percentage of improvement from baseline				
median (inter-quartile range (Q1-Q3))	43.18 (0.00 to 100.00)			

## Statistical analyses

No statistical analyses for this end point

## Secondary: Number of Participants With Death, Serious Adverse Events (SAEs), Drug-Related SAEs, Discontinuation Due to Drug-Related SAEs, Drug-Related Adverse Events (AEs), and Discontinuation Due to Drug-Related AEs During the Short Term Period

End point title	Number of Participants With Death, Serious Adverse Events (SAEs), Drug-Related SAEs, Discontinuation Due to Drug-Related SAEs, Drug-Related Adverse Events (AEs), and Discontinuation Due to Drug-Related AEs During the Short Term Period
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End point description:

AE=any new unfavorable symptom, sign, or disease or worsening of a preexisting condition that may not have a causal relationship with treatment. SAE=a medical event that at any dose results in death, persistent or significant disability/incapacity, or drug dependency/abuse; is life-threatening, an important medical event, or a congenital anomaly/birth defect; or requires or prolongs hospitalization. SAEs also include hospitalizations for elective surgical procedures. Drug-related=related or missing relationship to study drug. Data includes all events from the date of the first dose of the study drug up to 56 days post the last dose of the study drug in the short-term period or start of the long-term period, whichever occurred first.

End point type	Secondary
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End point timeframe:

Day 1 up to 56 days post Week 16 (Day 113); approximately 6 months

<b>End point values</b>	Abatacept			
Subject group type	Reporting group			
Number of subjects analysed	20			
Units: participants				
Death	0			
SAEs	2			
Drug-Related SAEs	1			
Discontinuation Due to Drug-Related SAEs	0			
Drug-Related AEs	5			
Discontinuation Due to Drug-Related AEs	0			

## Statistical analyses

No statistical analyses for this end point

### Secondary: Maximum observed concentration (C<sub>max</sub>) of Abatacept During the Short Term Period

End point title	Maximum observed concentration (C <sub>max</sub> ) of Abatacept During the Short Term Period
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End point description:

C<sub>max</sub> was obtained from the serum concentration versus time data after intravenous administration of abatacept. Blood samples were collected at 0 hour (pre-dose) on Days 15 and 29 and at 0 hour (pre-dose) and 0.5 hours (post dose) on Days 57, 85, and 113. A blood sample was also collected on an interim visit that occurred on any day between Day 92 and Day 110. ug/mL=micrograms/milliliter

End point type	Secondary
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End point timeframe:

9 time points up to Week 16 (Day 113)

End point values	Abatacept			
Subject group type	Reporting group			
Number of subjects analysed	20			
Units: ug/mL				
geometric mean (geometric coefficient of variation)				
Day 57	163.13 (± 26.22)			
Day 85	172.43 (± 23.15)			
Day 113	167.85 (± 18.42)			

## Statistical analyses

No statistical analyses for this end point

### Secondary: Trough observed concentration (C<sub>trough</sub>) of Abatacept During the Short Term Period

End point title	Trough observed concentration (C <sub>trough</sub> ) of Abatacept During the Short Term Period
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End point description:

Blood samples were collected at 0 hour (pre-dose) on Days 15 and 29 and at 0 hour (pre-dose) and 0.5 hours (post dose) on Days 57, 85, and 113. A blood sample was also collected on an interim visit that occurred on any day between Day 92 and Day 110. ug/mL=micrograms/milliliter

End point type	Secondary
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End point timeframe:

9 time points up to Week 16 (Day 113)

<b>End point values</b>	Abatacept			
Subject group type	Reporting group			
Number of subjects analysed	20			
Units: ug/mL				
geometric mean (geometric coefficient of variation)				
Day 15	25.50 (± 27.61)			
Day 29	38.64 (± 29.08)			
Day 57	17.24 (± 36.63)			
Day 85	16.79 (± 40.01)			
Day 113	15.56 (± 36.61)			

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Participants with Positive Immunogenicity During the Short Term Period

End point title	Number of Participants with Positive Immunogenicity During the Short Term Period
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End point description:

A positive immunogenicity response for 'Cytotoxic T-lymphocyte antigen (CTLA4), Immunoglobulin (Ig)', 'Ig and/or Junction Region', respectively = (1) missing baseline immunogenicity measurement and positive analytical laboratory reported immunogenicity response post-baseline (2) negative baseline immunogenicity response and positive analytical laboratory reported immunogenicity response post-baseline (3) positive baseline immunogenicity response and positive analytical laboratory reported immunogenicity response post-baseline with titer value strictly greater than the baseline titer value. Assessment based on assay cutpoint value. Serum samples were collected prior to study medication at Week 0 (Day 1), Week 8 (Day 57), and Week 16 (Day 113) in the short term period. Participants who early discontinued from the study or complete and did not switch to commercial abatacept had a serum sample collected on final visit or early termination visit, 28, 84 and 168 days after the last dose.

End point type	Secondary
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End point timeframe:

Day 1 up to Week 16 (Day 113)

<b>End point values</b>	Abatacept			
Subject group type	Reporting group			
Number of subjects analysed	20			
Units: participants	0			

### Statistical analyses

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No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

During cumulative period: from first dose date up to 56 days beyond last dose. In LT period up to 56 days beyond the last dose of study medication in the ST period for participants not entering the LT period

Adverse event reporting additional description:

Study Start: August 2013; Study Reached PE Completion: Study DBL October 2016

Assessment type	Systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	19.0
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### Reporting groups

Reporting group title	Abatacept
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Reporting group description:

Abatacept 10 mg/kg (for body weight less than 75 kg), 750 mg (for body weight between 75 and 100 kg), and 1g (for body weight above 100kg) intravenous infusion on Week 0 (Day 1), Week 2 (Day 15), Week 4 (Day 29) and every 4 weeks (28 days) thereafter up to the end of the study.

Serious adverse events	Abatacept		
Total subjects affected by serious adverse events			
subjects affected / exposed	6 / 20 (30.00%)		
number of deaths (all causes)	0		
number of deaths resulting from adverse events	0		
Musculoskeletal and connective tissue disorders			
Juvenile idiopathic arthritis			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences causally related to treatment / all	2 / 2		
deaths causally related to treatment / all	0 / 0		
Infections and infestations			
Gastroenteritis			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences causally related to treatment / all	1 / 1		
deaths causally related to treatment / all	0 / 0		
Varicella			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Viral tonsillitis			

subjects affected / exposed	1 / 20 (5.00%)		
occurrences causally related to treatment / all	1 / 1		
deaths causally related to treatment / all	0 / 0		
Enterocolitis Viral			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences causally related to treatment / all	1 / 1		
deaths causally related to treatment / all	0 / 0		

Frequency threshold for reporting non-serious adverse events: 5 %

<b>Non-serious adverse events</b>	Abatacept		
Total subjects affected by non-serious adverse events			
subjects affected / exposed	20 / 20 (100.00%)		
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Skin papilloma			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Vascular disorders			
Haemorrhage			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
General disorders and administration site conditions			
Pyrexia			
subjects affected / exposed	4 / 20 (20.00%)		
occurrences (all)	4		
Injection site swelling			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Non-cardiac chest pain			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Hypothermia			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Oedema			

subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Chest Pain subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Immune system disorders Allergy to arthropod sting subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Seasonal allergy subjects affected / exposed occurrences (all)	5 / 20 (25.00%) 5		
Reproductive system and breast disorders Balanoposthitis subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Dysmenorrhoea subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Respiratory, thoracic and mediastinal disorders Upper respiratory tract inflammation subjects affected / exposed occurrences (all)	5 / 20 (25.00%) 5		
Epistaxis subjects affected / exposed occurrences (all)	3 / 20 (15.00%) 3		
Rhinorrhoea subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Cough subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Rhinitis allergic subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Allergic Bronchitis			

<p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Oropharyngeal Pain</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>	<p>1 / 20 (5.00%)</p> <p>1</p> <p>1 / 20 (5.00%)</p> <p>1</p>		
<p>Psychiatric disorders</p> <p>Attention Deficit/Hyperactivity Disorder</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Nightmare</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>	<p>1 / 20 (5.00%)</p> <p>1</p> <p>1 / 20 (5.00%)</p> <p>1</p>		
<p>Investigations</p> <p>Alanine aminotransferase increased</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Bone density decreased</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Influenza B Virus Test Positive</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Streptococcus Test Positive</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>	<p>1 / 20 (5.00%)</p> <p>1</p> <p>1 / 20 (5.00%)</p> <p>1</p> <p>1 / 20 (5.00%)</p> <p>1</p> <p>1 / 20 (5.00%)</p> <p>1</p>		
<p>Injury, poisoning and procedural complications</p> <p>Arthropod sting</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Frostbite</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Limb injury</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Radius fracture</p>	<p>1 / 20 (5.00%)</p> <p>1</p> <p>1 / 20 (5.00%)</p> <p>1</p> <p>1 / 20 (5.00%)</p> <p>1</p>		

subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Contusion			
subjects affected / exposed	4 / 20 (20.00%)		
occurrences (all)	4		
Joint dislocation			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Ligament sprain			
subjects affected / exposed	3 / 20 (15.00%)		
occurrences (all)	3		
Excoriation			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Wound			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Arthropod bite			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Eye contusion			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Nervous system disorders			
Headache			
subjects affected / exposed	7 / 20 (35.00%)		
occurrences (all)	7		
Restless legs syndrome			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Dizziness			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Dizziness Postural			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		

Hypoaesthesia subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Intercostal Anemia subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Blood and lymphatic system disorders Anaemia subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Eye disorders Conjunctivitis allergic subjects affected / exposed occurrences (all)  Dry eye subjects affected / exposed occurrences (all)  Scleritis subjects affected / exposed occurrences (all)  Ocular Hyperaemia subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1  2 / 20 (10.00%) 2  1 / 20 (5.00%) 1  1 / 20 (5.00%) 1		
Gastrointestinal disorders Diarrhoea subjects affected / exposed occurrences (all)  Toothache subjects affected / exposed occurrences (all)  Haemorrhoids subjects affected / exposed occurrences (all)  Stomatitis subjects affected / exposed occurrences (all)  Abdominal pain	5 / 20 (25.00%) 5  2 / 20 (10.00%) 2  1 / 20 (5.00%) 1  7 / 20 (35.00%) 7		

subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Dental caries			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Nausea			
subjects affected / exposed	4 / 20 (20.00%)		
occurrences (all)	4		
Vomiting			
subjects affected / exposed	3 / 20 (15.00%)		
occurrences (all)	3		
Abdominal pain upper			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Enterocolitis			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Aphthous ulcer			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Constipation			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Irritable Bowel Syndrome			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Skin and subcutaneous tissue disorders			
Eczema			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Acne			
subjects affected / exposed	5 / 20 (25.00%)		
occurrences (all)	5		
Asteatosis			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		

Rash			
subjects affected / exposed	3 / 20 (15.00%)		
occurrences (all)	3		
Dermatitis			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Purpura			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Skin ulcer			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Ingrowing nail			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Alopecia			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Dry skin			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Musculoskeletal and connective tissue disorders			
Arthralgia			
subjects affected / exposed	5 / 20 (25.00%)		
occurrences (all)	5		
Tendonitis			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Myalgia			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Arthritis			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Back pain			

subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Joint swelling			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Neck pain			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Juvenile Idiopathic Arthritis			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Pain in Extremity			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Muscle Fatigue			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Musculoskeletal Pain			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Infections and infestations			
Pharyngitis			
subjects affected / exposed	12 / 20 (60.00%)		
occurrences (all)	12		
Otitis externa			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Otitis media acute			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Rhinitis			
subjects affected / exposed	3 / 20 (15.00%)		
occurrences (all)	3		
Upper respiratory tract infection			
subjects affected / exposed	4 / 20 (20.00%)		
occurrences (all)	4		

Cystitis			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Enteritis infectious			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Oral candidiasis			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Tonsillitis			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Viral pharyngitis			
subjects affected / exposed	3 / 20 (15.00%)		
occurrences (all)	3		
Viral rash			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Angular cheilitis			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Bronchitis			
subjects affected / exposed	5 / 20 (25.00%)		
occurrences (all)	5		
Gastroenteritis			
subjects affected / exposed	4 / 20 (20.00%)		
occurrences (all)	4		
Varicella			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Influenza			
subjects affected / exposed	10 / 20 (50.00%)		
occurrences (all)	10		
Nasopharyngitis			
subjects affected / exposed	17 / 20 (85.00%)		
occurrences (all)	17		

Oral herpes			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Tinea infection			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Conjunctivitis			
subjects affected / exposed	3 / 20 (15.00%)		
occurrences (all)	3		
Gastroenteritis viral			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Enterocolitis viral			
subjects affected / exposed	2 / 20 (10.00%)		
occurrences (all)	2		
Herpes simplex			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Hordeolum			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Paronychia			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Folliculitis			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Furuncle			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Hand-Foot-And-Mouth Disease			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		
Herpangina			
subjects affected / exposed	1 / 20 (5.00%)		
occurrences (all)	1		

Herpes Virus Infection subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Mycoplasma Infection subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Oesophageal Candidiasis subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Otitis Media subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Viral Tonsillitis subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Metabolism and nutrition disorders			
Hypoglycaemia subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		
Obesity subjects affected / exposed occurrences (all)	1 / 20 (5.00%) 1		

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
05 January 2016	Update the secondary objectives and the exploratory objectives. Other changes incorporated revision of contraceptive methods and the internal organization change

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported