Clinical trial results:

Protocol TRO19622CLEQ1275-1 (WN29836) Phase II, Multicenter, Randomized, Adaptive, Double-Blind, Placebo Controlled Study to Assess Safety and Efficacy of Olesoxime (TRO19622) in 3-25 Year Old Spinal Muscular Atrophy (SMA) Patients Summary

EudraCT number2010-020386-24Trial protocolFR NL BE DE IT GBGlobal end of trial date09 October 2013Results informationResult version numberv1 (current)This version publication date25 January 2018First version publication date25 January 2018

Trial information

Trial identification		
Sponsor protocol code	WN29836	
Additional study identifiers		
ISRCTN number	-	
ClinicalTrials.gov id (NCT number)	NCT01302600	
WHO universal trial number (UTN)	-	
Netec		

Notes:	

Sponsors		
Sponsor organisation name	F. Hoffmann-La Roche AG	
Sponsor organisation address	Grenzacherstrasse 124, Basel, Switzerland, CH-4070	
Public contact	Medical Communications, F. Hoffmann-La Roche AG, +41 616878333, global.trial_information@roche.com	
Scientific contact	Medical Communications, F. Hoffmann-La Roche AG, +41 616878333, global.trial_information@roche.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 October 2013	
Is this the analysis of the primary completion data?	Yes	
Primary completion date	09 October 2013	
Global end of trial reached?	Yes	
Global end of trial date	09 October 2013	
Was the trial ended prematurely?	Νο	
N = +	•	

Notes:

General information about the trial

Main objective of the trial:

The main objectives of this study were to assess the efficacy and safety of olesoxime 10 milligrams per kilogram (mg/kg) once daily liquid suspension formulation in spinal muscular atrophy (SMA) Type 2 or Type 3 non-ambulant subjects, aged 3 - 25 years.

Protection of trial subjects:

Each subject, or the subject's representative, signed an informed consent form before participating in the study.

Background therapy: -

Evidence for comparator: -

	·······	
Actual start date of recruitment	18 November 2011	
Long term follow-up planned	No	
Independent data monitoring committee (IDMC) involvement?	Yes	
	-	

Notes:

Population of trial subjects

Subjects enrolled per country

Subjects chroned per country	
Country: Number of subjects enrolled	Belgium: 16
Country: Number of subjects enrolled	France: 29
Country: Number of subjects enrolled	Germany: 20
Country: Number of subjects enrolled	I taly: 52
Country: Number of subjects enrolled	Netherlands: 9
Country: Number of subjects enrolled	Poland: 20
Country: Number of subjects enrolled	United Kingdom: 19
Worldwide total number of subjects	165
EEA total number of subjects	165

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)	108

Adolescents (12-17 years)	36
Adults (18-64 years)	21
From 65 to 84 years	0
85 years and over	0

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details:

Eligible subjects included 3 to 25 year-old patients with Type 2 or non-ambulant Type 3 SMA.

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	Investigator, Subject
Arms	
Are arms mutually exclusive?	Yes
Arm title	Placebo
Arm description:	
Matching placebo, once a day for 104 w	eeks.
Arm type	Placebo
Investigational medicinal product name	Matching placebo
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Oral suspension
Routes of administration	Oral use
Dosage and administration details:	
Matching placebo, once a day for 104 w	eeks.
Arm title Olesoxime	
Arm description:	
Olesoxime, 10 mg/kg body weight once	a day for 104 weeks.
Arm type	Experimental
Investigational medicinal product name	Olesoxime
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Oral suspension
Routes of administration	Oral use
Dosage and administration details:	

Dosage and administration details:

Olesoxime, 10 mg/kg body weight once a day for 104 weeks.

Number of subjects in period 1	Placebo	Olesoxime
Started	57	108
Completed	50	98
Not completed	7	10
Consent withdrawn by subject	1	3
Adverse event, non-fatal	2	4

Clinical trial results 2010-020386-24 version 1

Death	1	1
Non-compliance with study drug	1	-
Reason not specified	2	2

Baseline characteristics

Reporting groups		
Reporting group title	Placebo	
Reporting group description:		
Matching placebo, once a day for 104 weeks.		
Reporting group title Olesoxime		
Reporting group description:		
Olesoxime, 10 mg/kg body weight once a day for 104 weeks.		

Reporting group values	Placebo	Olesoxime	Total
Number of subjects	57	108	165
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)	30	78	108
Adolescents (12-17 years)	20	16	36
Adults (18-64 years)	7	14	21
From 65-84 years	0	0	0
85 years and over	0	0	0
Age Continuous			
Units: years			
arithmetic mean	11.2	9.3	
standard deviation	± 6.0	± 5.7	-
Gender Categorical			
Units: Subjects			
Female	32	51	83
Male	25	57	82

End points

End points reporting groups		
Reporting group title	Placebo	
Reporting group description:		
Matching placebo, once a day for 104 weeks.		
Reporting group title Olesoxime		
Reporting group description:		
Olesoxime, 10 mg/kg body weight once a day for 104 weeks.		

Primary: Mean Change from Baseline to Week 104 in the Motor Function Measure (MFM) Dimensions 1 and 2 (D1+D2) Score

End point title	Mean Change from Baseline to Week 104 in the Motor Function
	Measure (MFM) Dimensions 1 and 2 (D1+D2) Score

The MFM is an assessment of functional motor abilities of subjects with neuromuscular disease comprising items rated on a 4-point scale (0 to 3). The MFM items are grouped into three functional dimh r hegebze e s r

End point title C	Change from Baseline in MFM Total Score at Week 104
-------------------	---

End point description:

The MFM is an assessment of functional motor abilities of subjects with neuromuscular disease comprising items rated on a 4-point scale (0 to 3). The MFM items are grouped into three functional dimensions D1, D2 and D3. Patient MFM scores were normalized to the maximum achievable score. The full analysis set (FAS) included all randomized subjects who received at least one dose of study drug and who had at least one post-randomization assessment of MFM available.

End point type	Secondary	
End point timeframe:		
Baseline to Week 104		

End point values	Placebo	Olesoxime	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	57	103	
Units: score			
least squares mean (standard error)	-1.45 (± 0.943)	0.59 (± 0.751)	

Statistical analyses

No statistical analyses for this end point

Secondary: Change from Baseline in Hammersmith Functional Motor Scale (HFMS) at Week 91

End point title	Change from Baseline in Hammersmith Functional Motor Scale
	(HFMS) at Week 91

End point description:

The HFMS consists of 20 items, assessing the subject's ability to perform various activities. Each activity is scored on a 3-point scoring system, with a score of 2 for unaided, 1 for assistance, and 0 for inability. The full analysis set (FAS) included all randomized subjects who received at least one dose of study drug and who had at least one post-randomization assessment of MFM available.

End point type	Secondary	
End point timeframe:		
Baseline to Week 91		

End point values	Placebo	Olesoxime	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	57	103	
Units: score			
least squares mean (standard error)	-1.72 (± 0.515)	-0.78 (± 0.416)	

Statistical analyses

Secondary: Time to 4-Point Decrease on the HFMS Score

End point title	Time to 4-Point Decrease on the HFMS Score

End point description:

The HFMS consists of 20 items, assessing the subject's ability to perform various activities. Each activity is scored on a 3-point scoring system, with a score of 2 for unaided, 1 for assistance, and 0 for inability. The full analysis set (FAS) included all randomized subjects who received at least one dose of study drug and who had at least one post-randomization assessment of MFM available. 9999= not estimable.

End point type	Secondary
End point timeframe:	
Up to Week 104	

End point values	Placebo	Olesoxime	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	57	103	
Units: weeks			
median (confidence interval 95%)	9999 (91.4 to 9999)	9999 (9999 to 9999)	

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Subjects with Response for MFM D1+D2 Score at Week 104

End point title Percentage of Subjects with Response for MFM D1+D2 Score at Week 104

End point description:

The MFM is an assessment of functional motor abilities of subjects with neuromuscular disease comprising items rated on a 4-point scale (O to 3). The MFM items are grouped into three functional dimensions D1, D2 and D3. Patient MFM scores were normalized to the maximum achievable score. The full analysis set (FAS) included all randomized subjects who received at least one dose of study drug and who had at least one post-randomization assessment of MFM available.

End point type	Secondary
End point timeframe:	
Baseline to Week 104	

End point values	Placebo	Olesoxime	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	57	103	
Units: percentage of subjects			
number (not applicable)	38.6	54.4	

No statistical analyses for this end point

Secondary: Percentage of Subjects with Response for MFM Total Score at Week 104

End point title Percentage of Subjects with Response for MFM Total Score at Week 104

End point description:

The MFM is an assessment of functional motor abilities of subjects with neuromuscular disease comprising items rated on a 4-point scale (0 to 3). The MFM items are grouped into three functional dimensions D1, D2 and D3. Patient MFM scores were normalized to the maximum achievable score. The full analysis set (FAS) included all randomized subjects who received at least one dose of study drug and who had at least one post-randomization assessment of MFM available.

End point type	Secondary
End point timeframe:	
Baseline to Week 104	

End point values	Placebo	Olesoxime	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	57	103	
Units: percentage of subjects			
number (not applicable)	38.6	56.3	

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Subjects with Response for HFMS Score at Week 91

End point title Percentage of Subjects with Response for HFMS Score at Week 91

End point description:

The HFMS consists of 20 items, assessing the subject's ability to perform various activities. Each activity is scored on a 3-point scoring system, with a score of 2 for unaided, 1 for assistance, and 0 for inability. The full analysis set (FAS) included all randomized subjects who received at least one dose of study drug and who had at least one post-randomization assessment of MFM available.

End point type	Secondary
End point timeframe:	
Baseline to Week 91	

End point values	Placebo	Olesoxime	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	57	103	
Units: percentage of subjects			
number (not applicable)	28.1	49.5	

No statistical analyses for this end point

Secondary: Change from Baseline in Compound Muscle Action Potential (CMAP) at Week 104

End point title	Change from Baseline in Compound Muscle Action Potential
	(CMAP) at Week 104

End point description:

CMAP is an electromyography investigation (electrical study of muscle function). The full analysis set (FAS) included all randomized subjects who received at least one dose of study drug and who had at least one post-randomization assessment of MFM available.

End point type Secondary

End point timeframe:

Change from Baseline in Compound Muscle Action Potential (CMAP) at Week 104

End point values	Placebo	Olesoxime	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	57	103	
Units: millivolts (mV)			
least squares mean (standard error)	-0.16 (± 0.294)	-0.07 (± 0.214)	

Statistical analyses

No statistical analyses for this end point

Secondary: Change from Baseline in Motor Unit Number Estimation (MUNE) at Week 104

	Change from Baseline in Motor Unit Number Estimation (MUNE) at Week 104
--	---

End point description:

MUNE is a technique that can be used to determine the approximate number of motor neurons in a muscle or group of muscles. The full analysis set (FAS) included all randomized subjects who received at least one dose of study drug and who had at least one post-randomization assessment of MFM available.

End point type	Secondary
End point timeframe:	
Baseline to Week 104	

End point values	Placebo	Olesoxime	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	57	103	
Units: mune			
least squares mean (standard error)	-6.69 (± 5.106)	-4.51 (± 3.867)	

No statistical analyses for this end point

Secondary: Change from Baseline in Pediatric Quality of Life Inventory (PedsQL) Neuromuscular Module Score - Patient Report

End point title	Change from Baseline in Pediatric Quality of Life Inventory
	(PedsQL) Neuromuscular Module Score - Patient Report

End point description:

The PedsQL Neuromuscular Module Scales are comprised of parallel child self-report and parent proxyreport formats for children ages 5-18 years, and a parent proxy-report format for children ages 2-4 years. The PedsQL scale assess: the disease process and associated symptoms; the subject's ability to communicate with healthcare providers and others about his/her illness; and items related to family financial and social support systems. The full analysis set (FAS) included all randomized subjects who received at least one dose of study drug and who had at least one post-randomization assessment of MFM available.

End point type	Secondary
End point timeframe:	
Baseline to Week 104	

End point values	Placebo	Olesoxime	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	47	80	
Units: score			
least squares mean (standard error)	-3.49 (± 2.061)	-3.24 (± 1.729)	

Statistical analyses

No statistical analyses for this end point

Secondary: Change from Baseline in PedsQL Neuromuscular Module Score -Parent/Caregiver Report at Week 104

End point title

Change from Baseline in PedsQL Neuromuscular Module Score -Parent/Caregiver Report at Week 104

End point description:

The PedsQL Neuromuscular Module Scales are comprised of parallel child self-report and parent proxyreport formats for children ages 5-18 years, and a parent proxy-report format for children ages 2-4 years. The PedsQL scale assess: the disease process and associated symptoms; the subject's ability to communicate with healthcare providers and others about his/her illness; and items related to family financial and social support systems. The full analysis set (FAS) included all randomized subjects who received at least one dose of study drug and who had at least one post-randomization assessment of MFM available.

End point type	Secondary	
End point timeframe:		
Baseline to Week 104		

End point values	Placebo	Olesoxime	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	57	103	
Units: score			
least squares mean (standard error)	-5.67 (± 1.954)	-2.06 (± 1.564)	

Statistical analyses

No statistical analyses for this end point

Secondary: Change from Baseline in Forced Expiratory Vital Capacity (FVC)/Theoretical Capacity (TC) at Week 104

End point title	Change from Baseline in Forced Expiratory Vital Capacity
	(FVC)/Theoretical Capacity (TC) at Week 104

End point description:

Pulmonary Function was assessed in subjects 5 years or older by measuring FVC (as percent predicted for age and height). The full analysis set (FAS) included all randomized subjects who received at least one dose of study drug and who had at least one post-randomization assessment of MFM available.

End point type	Secondary
End point timeframe:	
Baseline to Week 104	

End point values	Placebo	Olesoxime	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	47	80	
Units: percent			
least squares mean (standard error)	6.16 (± 2.601)	4.28 (± 2.316)	

Statistical analyses

Secondary: Clinical Global Impression of Change - Patient/Caregiver Assessment at Week 104

End point title	Clinical Global Impression of Change - Patient/Caregiver
	Assessment at Week 104

End point description:

The CGI-C measures global improvement or change and is rated on a 7-point scale, with scores ranging from 1 (very much improved) through to 7 (very much worse). The full analysis set (FAS) included all randomized subjects who received at least one dose of study drug and who had at least one post-randomization assessment of MFM available.

End point type Secondary End point timeframe: Week 104

End point values	Placebo	Olesoxime	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	57	103	
Units: percentage of subjects			
number (not applicable)			
Very much improved	0.0	1.0	
Much improved	6.1	3.1	
Minimally improved	16.3	20.8	
No change	59.2	66.7	
Minimally worse	12.2	7.3	
Much worse	6.1	1.0	
Very much worse	0.0	0.0	

Statistical analyses

No statistical analyses for this end point

Secondary: Clinical Global Impression of Change at Week 104 - Physician Assessment

End point title	Clinical Global Impression of Change at Week 104 - Physician
	Assessment

End point description:

The CGI-C measures global improvement or change and is rated on a 7-point scale, with scores ranging from 1 (very much improved) through to 7 (very much worse). The full analysis set (FAS) included all randomized subjects who received at least one dose of study drug and who had at least one post-randomization assessment of MFM available.

End point type	Secondary
End point timeframe:	
Week 104	

End point values	Placebo	Olesoxime	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	57	103	
Units: percentage of subjects			
number (not applicable)			
Very much improved	0.0	0.0	
Much improved	6.0	1.0	
Minimally improved	8.0	16.7	
No change	66.0	75.0	
Minimally worse	18.0	7.3	
Much worse	2.0	O. O	
Very much worse	0.0	O. O	

No statistical analyses for this end point

Adverse events informat	on	
Timeframe for reporting adver	e events:	
Up to 2 years.		
Assessment type	Systematic	
Dictionary used		
Dictionary name	MedDRA	
Dictionary version	19.0	
Reporting groups		
Reporting group title	Placebo	
Reporting group description:		
Matching placebo, once a day	or 104 weeks.	
Reporting group title	Olesoxime	
Reporting group description:		
Olesoxime, 10 mg/kg body we	ght once a day for 104 weeks.	

Serious adverse events	Placebo	Olesoxime	
Total subjects affected by serious adverse events			
subjects affected / exposed	29 / 57 (50.88%)	34 / 108 (31.48%)	
number of deaths (all causes)	1	1	
number of deaths resulting from adverse events			
Surgical and medical procedures			
Appendicectomy			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0/0	0/0	
Arthrodesis			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0/0	0/0	
Device therapy			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	0 / 4	0 / 0	
deaths causally related to treatment / all	0/0	0 / 0	
Fracture treatment			

subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0/0
Gastrostomy		
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)
occurrences causally related to treatment / all	0 / 1	0/0
deaths causally related to treatment / all	0 / 0	0/0
Hospitalisation		
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0/0
Mechanical ventilation		
subjects affected / exposed	1 / 57 (1.75%)	2 / 108 (1.85%)
occurrences causally related to treatment / all	0 / 1	0 / 2
deaths causally related to treatment / all	0/0	0/0
Scoliosis surgery		
subjects affected / exposed	2 / 57 (3.51%)	5 / 108 (4.63%)
occurrences causally related to treatment / all	0 / 2	1 / 5
deaths causally related to treatment / all	0 / 0	0/0
Spinal fusion surgery		
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0 / 0	1 / 1
deaths causally related to treatment / all	0 / 0	0/0
Spinal operation		
subjects affected / exposed	1 / 57 (1.75%)	2 / 108 (1.85%)
occurrences causally related to treatment / all	0 / 1	1 / 2
deaths causally related to treatment / all	0/0	0 / 0
Spinal rod insertion		
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0/0
Tenotomy		

subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0/0	
deaths causally related to treatment / all	0/0	0 / 0	
Tooth extraction			
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)	
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 Asthenia			
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0/0	1 / 1	
deaths causally related to treatment / all	0/0	0/0	
Chest pain			
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0/0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pyrexia			
subjects affected / exposed	2 / 57 (3.51%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0/3	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Unevaluable event			
subjects affected / exposed	0 / 57 (0.00%)	2 / 108 (1.85%)	
occurrences causally related to treatment / all	0/0	0 / 2	
deaths causally related to treatment / all	0 / 0	0/0	
Respiratory, thoracic and mediastinal disorders			
Acute respiratory failure			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0/0	
deaths causally related to treatment / all	0/0	0 / 0	
Atelectasis			
subjects affected / exposed	1 / 57 (1.75%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0 / 1	1 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	

Cough		
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0/0	1 / 1
deaths causally related to treatment / all	0/0	0 / 0
Dyspnoea		
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0/0	1 / 1
deaths causally related to treatment / all	0/0	0/0
Hypoventilation		
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0 / 0	1 / 1
deaths causally related to treatment / all	0/0	0/0
_ung disorder		
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)
occurrences causally related to treatment / all	0 / 2	0 / 0
deaths causally related to treatment / all	0/0	0/0
Obstructive airways disorder		
subjects affected / exposed	0 / 57 (0.00%)	2 / 108 (1.85%)
occurrences causally related to treatment / all	0 / 0	0 / 2
deaths causally related to treatment / all	0 / 0	0 / 1
Pleurisy		
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)
occurrences causally related to treatment / all	0 / 1	0/0
deaths causally related to treatment / all	0/0	0 / 0
Respiratory failure		
subjects affected / exposed	2 / 57 (3.51%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0 / 2	1 / 1
deaths causally related to treatment / all	0/0	0/0
Restrictive pulmonary disease		
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0/0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0
Tonsillar hypertrophy		

	1		
Oxygen saturation decreased			
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0/0	0 / 2	
deaths causally related to treatment / all	0/0	0 / 0	
Pulmonary function test			
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0/0	0/0	
Sleep study			
subjects affected / exposed	0 / 57 (0.00%)	2 / 108 (1.85%)	
occurrences causally related to treatment / all	0 / 0	0 / 2	
deaths causally related to treatment / all	0/0	0/0	
Transaminases increased		l İ	
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	1/1	0/0	
deaths causally related to treatment / all	0/0	0/0	
njury, poisoning and procedural complications			
Concussion			
subjects affected / exposed	0 / 57 (0.00%)	2 / 108 (1.85%)	
occurrences causally related to treatment / all	0 / 0	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Fall			
subjects affected / exposed	2 / 57 (3.51%)	2 / 108 (1.85%)	
occurrences causally related to treatment / all	0 / 2	0 / 2	
deaths causally related to treatment / all	0/0	0 / 0	
Femur fracture			
subjects affected / exposed	0 / 57 (0.00%)	2 / 108 (1.85%)	
occurrences causally related to treatment / all	0/0	0 / 2	
deaths causally related to treatment / all	0/0	0/0	
Fibula fracture			
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0/0	0 / 1	
deaths causally related to treatment / all	0/0	0/0	

Fracture displacement		
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0
deaths causally related to treatment / all	0/0	0/0
Greenstick fracture		
subjects affected / exposed	1 / 57 (1.75%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0 / 1	0 / 1
deaths causally related to treatment / all	0/0	0/0
Head injury		
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0/0	0 / 1
deaths causally related to treatment / all	0/0	0/0
Humerus fracture		
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0/0	0 / 1
deaths causally related to treatment / all	0/0	0/0
Road traffic accident		
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0/0	0 / 1
deaths causally related to treatment / all	0/0	0/0
Tibia fracture		
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0/0	0 / 1
deaths causally related to treatment / all	0/0	0/0
Congenital, familial and genetic disorders		
Cryptorchism		
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0/0
Frenulum breve	-	
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)
occurrences causally related to treatment / all	0/0	0 / 1
deaths causally related to treatment / all	0/0	0/0

Cardiac disorders			
Cardiac arrest			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Nervous system disorders			
Neuralgia			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Subarachnoid haemorrhage			
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0/0	0 / 1	
deaths causally related to treatment / all	0/0	0/0	
Tremor			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0/0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Blood and lymphatic system disorders			
Coagulopathy			
subjects affected / exposed	2 / 57 (3.51%)	2 / 108 (1.85%)	
occurrences causally related to treatment / all	2 / 2	2 / 2	
deaths causally related to treatment / all	0/0	0/0	
Gastrointestinal disorders			
Abdominal pain			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0/0	
deaths causally related to treatment / all	0/0	0/0	
Abdominal pain upper			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0/0	
deaths causally related to treatment / all	0/0	0 / 0	
Nausea			

subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0/0	
deaths causally related to treatment / all	0/0	0 / 0	
Vomiting			
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0 / 0	3 / 3	
deaths causally related to treatment / all	0/0	0/0	
Renal and urinary disorders			
Haematuria			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0/0	
deaths causally related to treatment / all	0 / 0	0/0	
Ketonuria			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0/0	0/0	
Nephrolithiasis			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0/0	
Musculoskeletal and connective tissue disorders			
Back pain			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0/0	
Kyphoscoliosis			
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0/0	0 / 1	
deaths causally related to treatment / all	0 / 0	0/0	
Scoliosis	1		
subjects affected / exposed	1 / 57 (1.75%)	2 / 108 (1.85%)	
occurrences causally related to treatment / all	0 / 1	1 / 2	
deaths causally related to treatment / all	0/0	0/0	

		<u>г</u>	
nfections and infestations Appendicitis			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0/0	
Bronchitis			
subjects affected / exposed	1 / 57 (1.75%)	2 / 108 (1.85%)	
occurrences causally related to treatment / all	0 / 1	0 / 2	
deaths causally related to treatment / all	0/0	0/0	
Gastroenteritis			
subjects affected / exposed	4 / 57 (7.02%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	1 / 5	1 / 1	
deaths causally related to treatment / all	0 / 0	0/0	
Influenza			
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0 / 0	1 / 2	
deaths causally related to treatment / all	0 / 0	0/0	
Lower respiratory tract infection			
subjects affected / exposed	3 / 57 (5.26%)	2 / 108 (1.85%)	
occurrences causally related to treatment / all	0/3	0 / 4	
deaths causally related to treatment / all	0 / 0	0/0	
Meningitis			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0/0	
deaths causally related to treatment / all	0 / 0	0/0	
Pharyngotonsillitis			
subjects affected / exposed	1 / 57 (1.75%)	0 / 108 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0/0	
Pneumonia			
subjects affected / exposed	6 / 57 (10.53%)	7 / 108 (6.48%)	
occurrences causally related to treatment / all	0 / 7	5/9	
deaths causally related to treatment / all	0 / 0	0/0	
Respiratory tract infection			

subjects affected / exposed	0 / 57 (0.00%)	4 / 108 (3.70%)	
occurrences causally related to treatment / all	0/0	1 / 5	
deaths causally related to treatment / all	0/0	0/0	
Respiratory tract infection viral			
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0/0	0 / 1	
deaths causally related to treatment / all	0/0	0/0	
Tooth abscess			
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0/0	0 / 1	
deaths causally related to treatment / all	0/0	0/0	
Upper respiratory tract infection			
subjects affected / exposed	1 / 57 (1.75%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	1 / 1	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Metabolism and nutrition disorders			
Dehydration			
subjects affected / exposed	1 / 57 (1.75%)	2 / 108 (1.85%)	
occurrences causally related to treatment / all	0 / 2	1 / 2	
deaths causally related to treatment / all	0/0	0/0	
Hypoglycaemia			
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0/0	2 / 2	
deaths causally related to treatment / all	0/0	0/0	
Metabolic acidosis			
subjects affected / exposed	0 / 57 (0.00%)	1 / 108 (0.93%)	
occurrences causally related to treatment / all	0/0	2 / 2	
deaths causally related to treatment / all	0/0	0/0	

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

Total subjects affected by non-serious adverse events subjects affected / exposed Investigations Weight increased subjects affected / exposed occurrences (all)	52 / 57 (91.23%) 3 / 57 (5.26%) 3	96 / 108 (88.89%) 4 / 108 (3.70%) 4	
subjects affected / exposed Investigations Weight increased subjects affected / exposed	3 / 57 (5.26%)	4 / 108 (3.70%)	
Investigations Weight increased subjects affected / exposed	3 / 57 (5.26%)	4 / 108 (3.70%)	
subjects affected / exposed			
occurrences (all)	3	4	
Injury, poisoning and procedural complications			
Fall			
subjects affected / exposed	5 / 57 (8.77%)	8 / 108 (7.41%)	
occurrences (all)	6	11	
Nervous system disorders			
Headache			
subjects affected / exposed	13 / 57 (22.81%)	22 / 108 (20.37%)	
occurrences (all)	19	57	
General disorders and administration site conditions Pain			
subjects affected / exposed	0 / 57 (0.00%)	6 / 108 (5.56%)	
occurrences (all)	0	6	
Pyrexia			
subjects affected / exposed	15 / 57 (26.32%)	33 / 108 (30.56%)	
occurrences (all)	22	57	
Unevaluable event			
subjects affected / exposed	5 / 57 (8.77%)	3 / 108 (2.78%)	
occurrences (all)	5	3	
Ear and labyrinth disorders			
Ear pain			
subjects affected / exposed	3 / 57 (5.26%)	3 / 108 (2.78%)	
occurrences (all)	1	1	
Gastrointestinal disorders			
Abdominal pain			
subjects affected / exposed	10 / 57 (17.54%)	20 / 108 (18.52%)	
occurrences (all)	18	39	
Abdominal pain upper			
subjects affected / exposed	4 / 57 (7.02%)	8 / 108 (7.41%)	
occurrences (all)	4	11	
Constipation			

subjects affected / exposed	4 / 57 (7.02%)	5 / 108 (4.63%)
occurrences (all)	6	5
、		5
Diarrhoea		
subjects affected / exposed	12 / 57 (21.05%)	18 / 108 (16.67%)
occurrences (all)	16	22
Nausea		
subjects affected / exposed	3 / 57 (5.26%)	9 / 108 (8.33%)
occurrences (all)	4	18
Toothache		
subjects affected / exposed	5 / 57 (8.77%)	1 / 108 (0.93%)
occurrences (all)	5	1
Vomiting		
subjects affected / exposed	16 / 57 (28.07%)	25 / 108 (23.15%)
occurrences (all)	25	38
Respiratory, thoracic and mediastinal disorders		
Cough		
subjects affected / exposed	16 / 57 (28.07%)	31 / 108 (28.70%)
occurrences (all)	30	48
Oropharyngeal pain subjects affected / exposed		14 4100 (14 01%)
	9 / 57 (15.79%)	16 / 108 (14.81%)
occurrences (all)	11	30
Respiratory tract congestion		
subjects affected / exposed	3 / 57 (5.26%)	3 / 108 (2.78%)
occurrences (all)	4	6
Musculoskeletal and connective tissue disorders		
Arthralgia		
subjects affected / exposed	7 / 57 (12.28%)	2 / 108 (1.85%)
occurrences (all)	7	2
Back pain		
subjects affected / exposed	3 / 57 (5.26%)	3 / 108 (2.78%)
occurrences (all)	3	4
, , , , , , , , , , , , , , , , , , ,		
Joint contracture		
subjects affected / exposed	4 / 57 (7.02%)	5 / 108 (4.63%)
occurrences (all)	4	5
Pain in extremity		
	I	I

subjects affected / exposed	5 / 57 (8.77%)	14 / 108 (12.96%)	
occurrences (all)	6	17	
Sachasia			
Scoliosis subjects affected / exposed	4 / 57 (7.02%)	12 / 108 (11.11%)	
occurrences (all)	5	13	
	5	15	
Infections and infestations			
Bronchitis subjects affected / exposed			
occurrences (all)	17 / 57 (29.82%)	17 / 108 (15.74%)	
	21	24	
Ear infection			
subjects affected / exposed	2 / 57 (3.51%)	9 / 108 (8.33%)	
occurrences (all)	2	11	
Gastroenteritis			
subjects affected / exposed	8 / 57 (14.04%)	16 / 108 (14.81%)	
occurrences (all)	12	21	
Influenza			
subjects affected / exposed	9 / 57 (15.79%)	10 / 108 (9.26%)	
occurrences (all)	14	26	
Lower respiratory tract infection			
subjects affected / exposed	3 / 57 (5.26%)	3 / 108 (2.78%)	
occurrences (all)	3	12	
Nasopharyngitis			
subjects affected / exposed	15 / 57 (26.32%)	25 / 108 (23.15%)	
occurrences (all)	34	55	
	54	33	
Pharyngitis			
subjects affected / exposed	6 / 57 (10.53%)	15 / 108 (13.89%)	
occurrences (all)	8	19	
Pneumonia			
subjects affected / exposed	3 / 57 (5.26%)	3 / 108 (2.78%)	
occurrences (all)	3	5	
Decoiratory tract infaction			
Respiratory tract infection subjects affected / exposed	6 / 57 (10.53%)	15 / 108 (13.89%)	
occurrences (all)	10	30	
		30	
Rhinitis			
subjects affected / exposed	6 / 57 (10.53%)	14 / 108 (12.96%)	
occurrences (all)	9	18	

Upper respiratory tract infection subjects affected / exposed occurrences (all)	13 / 57 (22.81%) 33	22 / 108 (20.37%) 36	
Urinary tract infection subjects affected / exposed occurrences (all)	4 / 57 (7.02%) 4	4 / 108 (3.70%) 4	
Metabolism and nutrition disorders Decreased appetite subjects affected / exposed occurrences (all)	3 / 57 (5.26%) 3	1 / 108 (0.93%) 3	

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? No

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported