

**Clinical trial results:****A Randomized, Parallel, Double-blind, Placebo-controlled, Dose-ranging, Phase 2b Study to Evaluate the Efficacy, Safety and Tolerability of AZD8233 Treatment in Participants With Dyslipidemia****Summary**

EudraCT number	2020-000767-23
Trial protocol	SK DK
Global end of trial date	20 July 2021

Results information

Result version number	v1
This version publication date	03 August 2022
First version publication date	03 August 2022

Trial information**Trial identification**

Sponsor protocol code	D7990C00003
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Additional study identifiers

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

Notes:

Sponsors

Sponsor organisation name	AstraZeneca
Sponsor organisation address	Astraalléen, Södertälje, Sweden,
Public contact	Information Center, AstraZeneca, information.center@astrazeneca.com
Scientific contact	Global Clinical Lead, AstraZeneca, +1 18772409479, information.center@astrazeneca.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	26 August 2021
Is this the analysis of the primary completion data?	Yes
Primary completion date	20 July 2021
Global end of trial reached?	Yes
Global end of trial date	20 July 2021
Was the trial ended prematurely?	No

Notes:

General information about the trial

Main objective of the trial:

To investigate the effect of AZD8233 on level of dyslipidemia related biomarker (LDL-C) across different dose levels (absolute change from baseline in log transformed LDL-C in plasma).

Protection of trial subjects:

This study was performed in compliance with International Council for Harmonisation (ICH) Good Clinical Practice, including the archiving of essential documents.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	28 October 2020
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	Denmark: 25
Country: Number of subjects enrolled	Slovakia: 44
Country: Number of subjects enrolled	United States: 50
Worldwide total number of subjects	119
EEA total number of subjects	69

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)	0
Adolescents (12-17 years)	0
Adults (18-64 years)	72
From 65 to 84 years	47
85 years and over	0

Subject disposition

Recruitment

Recruitment details:

This study was conducted at 19 clinical research center in Denmark, Slovakia and the USA. First subject enrolled (First subject first visit/first consent signed date): 28 October 2020. Last subject last visit: 20 July 2021.

Pre-assignment

Screening details:

Following a screening period of up to 42 days, eligible participants received an SC injection of study intervention on Days 1, 8, 29, and 57.

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, Monitor, Carer, Data analyst, Assessor

Arms

Are arms mutually exclusive?	Yes
Arm title	AZD8233 low dose

Arm description:

AZD8233 low dose for subcutaneous injection.

Arm type	Experimental
Investigational medicinal product name	AZD8233 low dose
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection
Routes of administration	Subcutaneous use

Dosage and administration details:

Subcutaneous injection on Days 1, 8, 29, and 57

Arm title	AZD8233 medium dose
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Arm description:

AZD8233 medium dose

Arm type	Experimental
Investigational medicinal product name	AZD8233 medium dose
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection
Routes of administration	Subcutaneous use

Dosage and administration details:

Subcutaneous injection on Days 1, 8, 29, and 57.

Arm title	AZD8233 high dose
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Arm description:

AZD8233 high dose

Arm type	Experimental
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Investigational medicinal product name	AZD8233 high dose
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection
Routes of administration	Subcutaneous use

Dosage and administration details:

Subcutaneous injection on Days 1, 8, 29, and 57.

Arm title	Placebo
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Arm description:

Placebo

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

Dosage and administration details:

Subcutaneous injection on Days 1, 8, 29, and 57

Number of subjects in period 1	AZD8233 low dose	AZD8233 medium dose	AZD8233 high dose
Started	30	30	29
Completed	28	29	27
Not completed	2	1	2
Consent withdrawn by subject	1	-	-
Reason not given	1	-	-
Adverse event, non-fatal	-	-	2
Lost to follow-up	-	1	-

Number of subjects in period 1	Placebo
Started	30
Completed	30
Not completed	0
Consent withdrawn by subject	-
Reason not given	-
Adverse event, non-fatal	-
Lost to follow-up	-

Baseline characteristics

Reporting groups

Reporting group title	AZD8233 low dose
Reporting group description:	AZD8233 low dose for subcutaneous injection.
Reporting group title	AZD8233 medium dose
Reporting group description:	AZD8233 medium dose
Reporting group title	AZD8233 high dose
Reporting group description:	AZD8233 high dose
Reporting group title	Placebo
Reporting group description:	Placebo

Reporting group values	AZD8233 low dose	AZD8233 medium dose	AZD8233 high dose
Number of subjects	30	30	29
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)	18	20	18
From 65-84 years	12	10	11
85 years and over	0	0	0
Age Continuous			
Units: Years			
arithmetic mean	61.8	60.6	60.4
standard deviation	± 7.1	± 7.4	± 8.4
Sex: Female, Male			
Units: Participants			
Female	16	12	11
Male	14	18	18
Race (NIH/OMB)			
Units: Subjects			
AMERICAN INDIAN OR ALASKA NATIVE	0	0	0
ASIAN	1	0	0
BLACK OR AFRICAN AMERICAN	2	2	1
NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER	0	0	0
WHITE	27	28	28

Reporting group values	Placebo	Total	
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Number of subjects	30	119	
Age categorical			
Units: Subjects			
In utero	0	0	
Preterm newborn infants (gestational age < 37 wks)	0	0	
Newborns (0-27 days)	0	0	
Infants and toddlers (28 days-23 months)	0	0	
Children (2-11 years)	0	0	
Adolescents (12-17 years)	0	0	
Adults (18-64 years)	16	72	
From 65-84 years	14	47	
85 years and over	0	0	
Age Continuous			
Units: Years			
arithmetic mean	63.9		
standard deviation	± 7.3	-	
Sex: Female, Male			
Units: Participants			
Female	18	57	
Male	12	62	
Race (NIH/OMB)			
Units: Subjects			
AMERICAN INDIAN OR ALASKA NATIVE	0	0	
ASIAN	0	1	
BLACK OR AFRICAN AMERICAN	3	8	
NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER	0	0	
WHITE	27	110	

End points

End points reporting groups

Reporting group title	AZD8233 low dose
Reporting group description:	AZD8233 low dose for subcutaneous injection.
Reporting group title	AZD8233 medium dose
Reporting group description:	AZD8233 medium dose
Reporting group title	AZD8233 high dose
Reporting group description:	AZD8233 high dose
Reporting group title	Placebo
Reporting group description:	Placebo

Primary: Change in LDL-C at week 12.

End point title	Change in LDL-C at week 12. ^[1]
End point description:	

End point type	Primary
End point timeframe:	Baseline to week 12

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: The primary analysis is presented in this table.

End point values	AZD8233 low dose	AZD8233 medium dose	AZD8233 high dose	Placebo
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	30	30	29	30
Units: Ratio				
geometric mean (confidence interval 95%)	0.606 (0.517 to 0.710)	0.270 (0.230 to 0.317)	0.206 (0.174 to 0.242)	0.978 (0.834 to 1.147)

Statistical analyses

No statistical analyses for this end point

Secondary: Relative change from baseline in PCSK9 concentration in plasma at week 12.

End point title	Relative change from baseline in PCSK9 concentration in plasma at week 12.
End point description:	
End point type	Secondary

End point timeframe:

Baseline to week 12

End point values	AZD8233 low dose	AZD8233 medium dose	AZD8233 high dose	Placebo
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	30	30	29	30
Units: Ratio				
geometric mean (confidence interval 95%)	0.420 (0.340 to 0.520)	0.110 (0.090 to 0.140)	0.060 (0.050 to 0.080)	0.950 (0.770 to 1.180)

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage change from baseline in concentration of TC, HDL-C, Non-HDL-C, VLDL-C, ApoA1, ApoB, Lp(a), Triglycerides, Remnants cholesterol

End point title	Percentage change from baseline in concentration of TC, HDL-C, Non-HDL-C, VLDL-C, ApoA1, ApoB, Lp(a), Triglycerides, Remnants cholesterol
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End point description:

End point type	Secondary
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End point timeframe:

Baseline to week 12

End point values	AZD8233 low dose	AZD8233 medium dose	AZD8233 high dose	Placebo
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	30	30	29	30
Units: Percent				
least squares mean (confidence interval 95%)				
Triglycerides	-7.70 (-18.44 to 3.05)	-12.95 (-23.77 to -2.12)	-12.70 (-23.88 to -1.52)	2.69 (-8.19 to 13.56)
Total cholesterol	-21.13 (-26.56 to -15.70)	-43.90 (-49.43 to -38.37)	-47.58 (-53.37 to -41.78)	-1.11 (-6.56 to 4.35)
HDL-C	3.37 (-1.12 to 7.86)	6.50 (1.96 to 11.04)	5.57 (0.90 to 10.25)	1.34 (-3.28 to 5.97)
Non-HDL-C	-29.57 (-36.58 to -22.56)	-61.25 (-68.38 to -54.11)	-67.92 (-75.38 to -60.45)	-0.65 (-7.81 to 6.51)
VLDL-C	-7.54 (-18.36 to 3.27)	-12.09 (-23.04 to -1.15)	-11.13 (-22.59 to 0.33)	3.22 (-7.90 to 14.35)
ApoB	-29.50 (-35.64 to -23.35)	-60.13 (-66.33 to -53.93)	-67.07 (-73.46 to -60.68)	-1.65 (-7.83 to 4.53)
Remnants cholesterol	-13.50 (-39.57 to 12.56)	-16.54 (-42.97 to 9.88)	-26.84 (-54.23 to 0.54)	6.38 (-20.28 to 33.05)

Statistical analyses

No statistical analyses for this end point

Secondary: Plasma concentration of AZD8233

End point title Plasma concentration of AZD8233^[2]

End point description:

End point type Secondary

End point timeframe:

Measurement at week 1, week 4, week 6, week 8, week 10, week 12, week 16, week 20, week 24 after first dose administration.

Notes:

[2] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period. Justification: No plasma concentrations were measured in placebo arm.

End point values	AZD8233 low dose	AZD8233 medium dose	AZD8233 high dose	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	30	30	29	
Units: ug/L				
arithmetic mean (standard deviation)				
Week 1	0.346 (± 0.59)	0.681 (± 0.24)	1.201 (± 0.49)	
Week 4	0.238 (± 0.21)	0.699 (± 0.33)	1.366 (± 0.71)	
Week 6	0.288 (± 0.21)	0.870 (± 0.34)	1.917 (± 1.09)	
Week 8	0.152 (± 0.10)	0.628 (± 0.57)	1.000 (± 0.68)	
Week 10	0.241 (± 0.15)	0.751 (± 0.29)	1.562 (± 0.84)	
Week 12	0.134 (± 0.07)	0.476 (± 0.23)	0.976 (± 0.75)	
Week 16	0.087 (± 0.09)	0.297 (± 0.53)	0.507 (± 0.70)	
Week 20	0.053 (± 0.004)	0.153 (± 0.26)	0.376 (± 0.68)	
Week 24	0.111 (± 0.31)	0.111 (± 0.15)	0.350 (± 0.62)	

Statistical analyses

No statistical analyses for this end point

Secondary: Anti-drug antibodies (ADAs) during the treatment period and follow-up period

End point title Anti-drug antibodies (ADAs) during the treatment period and follow-up period

End point description:

ADA titre results for subjects with positive ADA.

End point type	Secondary
End point timeframe:	
Measurement at week 0, week 1, week 4, week 8, week 12, week 16, week 20, week 24	

End point values	AZD8233 low dose	AZD8233 medium dose	AZD8233 high dose	Placebo
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	30	30	29	30
Units: ADA titre				
median (full range (min-max))				
Baseline	100 (100 to 100)	200 (200 to 200)	0 (0 to 0)	100 (100 to 100)
Week 1	100 (50 to 800)	200 (200 to 200)	0 (0 to 0)	100 (100 to 100)
Week 4	150 (100 to 1600)	200 (100 to 400)	75 (50 to 100)	100 (100 to 100)
Week 8	400 (200 to 3200)	200 (100 to 400)	75 (50 to 100)	100 (100 to 100)
Week 12	200 (200 to 1600)	200 (100 to 400)	200 (200 to 200)	50 (50 to 50)
Week 16	400 (100 to 1600)	200 (50 to 400)	300 (200 to 400)	100 (100 to 100)
Week 20	400 (200 to 1600)	200 (100 to 400)	500 (200 to 800)	100 (100 to 100)
Week 24	400 (200 to 800)	300 (100 to 400)	200 (50 to 800)	100 (100 to 100)

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage change from baseline in levels of LDL-C in plasma

End point title	Percentage change from baseline in levels of LDL-C in plasma
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End point description:

End point type	Secondary
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End point timeframe:

Baseline to week 12

End point values	AZD8233 low dose	AZD8233 medium dose	AZD8233 high dose	Placebo
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	30	30	29	30
Units: Percent				
least squares mean (confidence interval 95%)	-32.22 (-39.79 to -24.66)	-69.26 (-76.89 to -61.63)	-76.50 (-84.37 to -68.63)	-1.53 (-9.14 to 6.09)

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage change from baseline to week 12 in Lp(a)

End point title Percentage change from baseline to week 12 in Lp(a)

End point description:

End point type Secondary

End point timeframe:

Baseline to week 12

End point values	AZD8233 low dose	AZD8233 medium dose	AZD8233 high dose	Placebo
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	26	28	26	24
Units: Percent				
median (full range (min-max))	-6.94 (-68.0 to 15.2)	-38.89 (-88.2 to 0.0)	-44.66 (-84.1 to 0.0)	0.0 (-43.3 to 50.7)

Statistical analyses

No statistical analyses for this end point

Other pre-specified: Number of subjects with an ECG determined to be abnormal and clinically significant

End point title Number of subjects with an ECG determined to be abnormal and clinically significant

End point description:

End point type Other pre-specified

End point timeframe:

Baseline to end of treatment

End point values	AZD8233 low dose	AZD8233 medium dose	AZD8233 high dose	Placebo
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	30	30	29	30
Units: Number of subjects				
Baseline	0	0	0	0
End of treatment	0	0	0	0

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

From first dose of study drug until last study visit

Assessment type	Systematic
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Dictionary used

Dictionary name	MedDRA
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Dictionary version	24
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Reporting groups

Reporting group title	AZD8233 (90 mg)
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Reporting group description: -

Reporting group title	AZD8233 (50 mg)
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Reporting group description: -

Reporting group title	Placebo
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Reporting group description: -

Reporting group title	AZD8233 (15 mg)
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Reporting group description: -

Serious adverse events	AZD8233 (90 mg)	AZD8233 (50 mg)	Placebo
Total subjects affected by serious adverse events			
subjects affected / exposed	1 / 29 (3.45%)	2 / 30 (6.67%)	0 / 30 (0.00%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events	0	0	0
Injury, poisoning and procedural complications			
Concussion			
subjects affected / exposed	1 / 29 (3.45%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Vascular disorders			
Orthostatic hypotension			
subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Cardiac disorders			
Atrial fibrillation			
subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Cardiac failure acute subjects affected / exposed	0 / 29 (0.00%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Respiratory, thoracic and mediastinal disorders			
Acute respiratory failure subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Infections and infestations			
Staphylococcal infection subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
COVID-19 pneumonia subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Serious adverse events	AZD8233 (15 mg)		
Total subjects affected by serious adverse events			
subjects affected / exposed	1 / 30 (3.33%)		
number of deaths (all causes)	0		
number of deaths resulting from adverse events	0		
Injury, poisoning and procedural complications			
Concussion subjects affected / exposed	0 / 30 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Vascular disorders			
Orthostatic hypotension subjects affected / exposed	0 / 30 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Cardiac disorders			

Atrial fibrillation			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Cardiac failure acute			
subjects affected / exposed	1 / 30 (3.33%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Respiratory, thoracic and mediastinal disorders			
Acute respiratory failure			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Infections and infestations			
Staphylococcal infection			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
COVID-19 pneumonia			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		

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

Non-serious adverse events	AZD8233 (90 mg)	AZD8233 (50 mg)	Placebo
Total subjects affected by non-serious adverse events			
subjects affected / exposed	20 / 29 (68.97%)	17 / 30 (56.67%)	12 / 30 (40.00%)
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Benign neoplasm of thyroid gland			
subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences (all)	0	1	0
Seborrhoeic keratosis			

subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	1 / 30 (3.33%) 1	0 / 30 (0.00%) 0
Vascular disorders			
Haematoma			
subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Hypertension			
subjects affected / exposed occurrences (all)	3 / 29 (10.34%) 4	1 / 30 (3.33%) 1	0 / 30 (0.00%) 0
General disorders and administration site conditions			
Asthenia			
subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Fatigue			
subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	1 / 30 (3.33%) 1	0 / 30 (0.00%) 0
Feeling cold			
subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Injection site haematoma			
subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	1 / 30 (3.33%) 2	0 / 30 (0.00%) 0
Injection site pain			
subjects affected / exposed occurrences (all)	2 / 29 (6.90%) 2	2 / 30 (6.67%) 2	0 / 30 (0.00%) 0
Injection site reaction			
subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	1 / 30 (3.33%) 4	0 / 30 (0.00%) 0
Oedema peripheral			
subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Pyrexia			
subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Reproductive system and breast disorders			

Benign prostatic hyperplasia subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	1 / 30 (3.33%) 1
Ovarian mass subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Pelvic pain subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Respiratory, thoracic and mediastinal disorders			
Cough subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Chronic obstructive pulmonary disease subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Dyspnoea subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Oropharyngeal pain subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	1 / 30 (3.33%) 1
Psychiatric disorders			
Restlessness subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Investigations			
Alanine aminotransferase increased subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Blood creatine phosphokinase increased subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
C-reactive protein increased			

subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Hepatic enzyme increased subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Lipids increased subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Liver function test increased subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Protein urine present subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Transaminases increased subjects affected / exposed occurrences (all)	2 / 29 (6.90%) 2	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Urine albumin/creatinine ratio increased subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	1 / 30 (3.33%) 1
Injury, poisoning and procedural complications			
Facial bones fracture subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Fall subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Head injury subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Joint injury subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Post-traumatic neck syndrome			

subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Procedural pain subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	1 / 30 (3.33%) 1	1 / 30 (3.33%) 1
Radius fracture subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Skin abrasion subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Skin laceration subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 2	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Tooth fracture subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Wrist fracture subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Cardiac disorders Atrial fibrillation subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	1 / 30 (3.33%) 1
Palpitations subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	1 / 30 (3.33%) 1
Sinus bradycardia subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	1 / 30 (3.33%) 1	0 / 30 (0.00%) 0
Nervous system disorders Dizziness subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Headache			

subjects affected / exposed	1 / 29 (3.45%)	0 / 30 (0.00%)	1 / 30 (3.33%)
occurrences (all)	1	0	2
Hypoaesthesia			
subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences (all)	0	1	0
Migraine			
subjects affected / exposed	0 / 29 (0.00%)	2 / 30 (6.67%)	1 / 30 (3.33%)
occurrences (all)	0	2	1
Paraesthesia			
subjects affected / exposed	0 / 29 (0.00%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences (all)	0	0	0
Radiculopathy			
subjects affected / exposed	1 / 29 (3.45%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences (all)	1	0	0
Spinal cord compression			
subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences (all)	0	1	0
Blood and lymphatic system disorders			
Anaemia			
subjects affected / exposed	0 / 29 (0.00%)	0 / 30 (0.00%)	1 / 30 (3.33%)
occurrences (all)	0	0	1
Leukopenia			
subjects affected / exposed	1 / 29 (3.45%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences (all)	1	0	0
Spontaneous haematoma			
subjects affected / exposed	0 / 29 (0.00%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences (all)	0	0	0
Ear and labyrinth disorders			
Vertigo			
subjects affected / exposed	1 / 29 (3.45%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences (all)	1	0	0
Ear disorder			
subjects affected / exposed	0 / 29 (0.00%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences (all)	0	0	0
Gastrointestinal disorders			

Abdominal pain subjects affected / exposed occurrences (all)	3 / 29 (10.34%) 3	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Abdominal pain upper subjects affected / exposed occurrences (all)	2 / 29 (6.90%) 2	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Diarrhoea subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	0 / 30 (0.00%) 0	2 / 30 (6.67%) 3
Nausea subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	1 / 30 (3.33%) 1	0 / 30 (0.00%) 0
Haemorrhoids subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	1 / 30 (3.33%) 1	0 / 30 (0.00%) 0
Toothache subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Skin and subcutaneous tissue disorders			
Erythema subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	1 / 30 (3.33%) 1
Pruritus subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	0 / 30 (0.00%) 0	1 / 30 (3.33%) 1
Renal and urinary disorders			
Pollakiuria subjects affected / exposed occurrences (all)	1 / 29 (3.45%) 1	0 / 30 (0.00%) 0	0 / 30 (0.00%) 0
Musculoskeletal and connective tissue disorders			
Arthralgia subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	2 / 30 (6.67%) 2	1 / 30 (3.33%) 1
Back pain subjects affected / exposed occurrences (all)	0 / 29 (0.00%) 0	1 / 30 (3.33%) 1	1 / 30 (3.33%) 1

Cervical spinal stenosis			
subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences (all)	0	1	0
Musculoskeletal chest pain			
subjects affected / exposed	1 / 29 (3.45%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences (all)	1	0	0
Neck pain			
subjects affected / exposed	1 / 29 (3.45%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences (all)	1	1	0
Myalgia			
subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences (all)	0	1	0
Pain in extremity			
subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences (all)	0	1	0
Sacroiliitis			
subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences (all)	0	1	0
Spinal pain			
subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences (all)	0	1	0
Wrist deformity			
subjects affected / exposed	1 / 29 (3.45%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences (all)	1	0	0
Infections and infestations			
Gastroenteritis			
subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences (all)	0	1	0
Gastroenteritis viral			
subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences (all)	0	1	0
Herpes zoster			
subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences (all)	0	1	0
Nasal vestibulitis			

subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences (all)	0	1	0
Nasopharyngitis			
subjects affected / exposed	0 / 29 (0.00%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences (all)	0	0	0
Osteomyelitis			
subjects affected / exposed	0 / 29 (0.00%)	1 / 30 (3.33%)	0 / 30 (0.00%)
occurrences (all)	0	1	0
Sinusitis			
subjects affected / exposed	1 / 29 (3.45%)	0 / 30 (0.00%)	1 / 30 (3.33%)
occurrences (all)	1	0	1
Upper respiratory tract infection			
subjects affected / exposed	2 / 29 (6.90%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences (all)	2	0	0
Tooth infection			
subjects affected / exposed	1 / 29 (3.45%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences (all)	1	0	0
Urinary tract infection			
subjects affected / exposed	1 / 29 (3.45%)	0 / 30 (0.00%)	1 / 30 (3.33%)
occurrences (all)	1	0	1
Asymptomatic COVID-19			
subjects affected / exposed	1 / 29 (3.45%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences (all)	1	0	0
COVID-19			
subjects affected / exposed	1 / 29 (3.45%)	0 / 30 (0.00%)	1 / 30 (3.33%)
occurrences (all)	1	0	1
Metabolism and nutrition disorders			
Hypoglycaemia			
subjects affected / exposed	1 / 29 (3.45%)	0 / 30 (0.00%)	1 / 30 (3.33%)
occurrences (all)	1	0	1
Hypokalaemia			
subjects affected / exposed	1 / 29 (3.45%)	0 / 30 (0.00%)	0 / 30 (0.00%)
occurrences (all)	1	0	0

Non-serious adverse events	AZD8233 (15 mg)		
Total subjects affected by non-serious adverse events			

subjects affected / exposed	14 / 30 (46.67%)		
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Benign neoplasm of thyroid gland			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Seborrhoeic keratosis			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Vascular disorders			
Haematoma			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Hypertension			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
General disorders and administration site conditions			
Asthenia			
subjects affected / exposed	1 / 30 (3.33%)		
occurrences (all)	1		
Fatigue			
subjects affected / exposed	1 / 30 (3.33%)		
occurrences (all)	1		
Feeling cold			
subjects affected / exposed	1 / 30 (3.33%)		
occurrences (all)	2		
Injection site haematoma			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Injection site pain			
subjects affected / exposed	1 / 30 (3.33%)		
occurrences (all)	1		
Injection site reaction			
subjects affected / exposed	1 / 30 (3.33%)		
occurrences (all)	1		
Oedema peripheral			

<p>subjects affected / exposed occurrences (all)</p> <p>Pyrexia subjects affected / exposed occurrences (all)</p>	<p>1 / 30 (3.33%) 2</p> <p>0 / 30 (0.00%) 0</p>		
<p>Reproductive system and breast disorders</p> <p>Benign prostatic hyperplasia subjects affected / exposed occurrences (all)</p> <p>Ovarian mass subjects affected / exposed occurrences (all)</p> <p>Pelvic pain subjects affected / exposed occurrences (all)</p>	<p>0 / 30 (0.00%) 0</p> <p>1 / 30 (3.33%) 1</p> <p>1 / 30 (3.33%) 1</p>		
<p>Respiratory, thoracic and mediastinal disorders</p> <p>Cough subjects affected / exposed occurrences (all)</p> <p>Chronic obstructive pulmonary disease subjects affected / exposed occurrences (all)</p> <p>Dyspnoea subjects affected / exposed occurrences (all)</p> <p>Oropharyngeal pain subjects affected / exposed occurrences (all)</p>	<p>1 / 30 (3.33%) 1</p> <p>1 / 30 (3.33%) 1</p> <p>1 / 30 (3.33%) 1</p> <p>0 / 30 (0.00%) 0</p>		
<p>Psychiatric disorders</p> <p>Restlessness subjects affected / exposed occurrences (all)</p>	<p>1 / 30 (3.33%) 1</p>		
<p>Investigations</p> <p>Alanine aminotransferase increased</p>			

subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Blood creatine phosphokinase increased subjects affected / exposed occurrences (all)	1 / 30 (3.33%) 1		
C-reactive protein increased subjects affected / exposed occurrences (all)	1 / 30 (3.33%) 1		
Hepatic enzyme increased subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Lipids increased subjects affected / exposed occurrences (all)	1 / 30 (3.33%) 1		
Liver function test increased subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Protein urine present subjects affected / exposed occurrences (all)	1 / 30 (3.33%) 1		
Transaminases increased subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Urine albumin/creatinine ratio increased subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Injury, poisoning and procedural complications			
Facial bones fracture subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Fall subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Head injury			

subjects affected / exposed occurrences (all)	1 / 30 (3.33%) 1		
Joint injury subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Post-traumatic neck syndrome subjects affected / exposed occurrences (all)	1 / 30 (3.33%) 1		
Procedural pain subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Radius fracture subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Skin abrasion subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Skin laceration subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Tooth fracture subjects affected / exposed occurrences (all)	1 / 30 (3.33%) 1		
Wrist fracture subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Cardiac disorders			
Atrial fibrillation subjects affected / exposed occurrences (all)	1 / 30 (3.33%) 1		
Palpitations subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Sinus bradycardia subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		

Nervous system disorders			
Dizziness			
subjects affected / exposed	1 / 30 (3.33%)		
occurrences (all)	1		
Headache			
subjects affected / exposed	2 / 30 (6.67%)		
occurrences (all)	2		
Hypoaesthesia			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Migraine			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Paraesthesia			
subjects affected / exposed	1 / 30 (3.33%)		
occurrences (all)	1		
Radiculopathy			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Spinal cord compression			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Blood and lymphatic system disorders			
Anaemia			
subjects affected / exposed	1 / 30 (3.33%)		
occurrences (all)	1		
Leukopenia			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Spontaneous haematoma			
subjects affected / exposed	1 / 30 (3.33%)		
occurrences (all)	2		
Ear and labyrinth disorders			
Vertigo			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Ear disorder			

subjects affected / exposed occurrences (all)	1 / 30 (3.33%) 1		
Gastrointestinal disorders			
Abdominal pain			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Abdominal pain upper			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Diarrhoea			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Nausea			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Haemorrhoids			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Toothache			
subjects affected / exposed	1 / 30 (3.33%)		
occurrences (all)	1		
Skin and subcutaneous tissue disorders			
Erythema			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Pruritus			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Renal and urinary disorders			
Pollakiuria			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Musculoskeletal and connective tissue disorders			
Arthralgia			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		

Back pain			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Cervical spinal stenosis			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Musculoskeletal chest pain			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Neck pain			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Myalgia			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Pain in extremity			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Sacroiliitis			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Spinal pain			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Wrist deformity			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Infections and infestations			
Gastroenteritis			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Gastroenteritis viral			
subjects affected / exposed	0 / 30 (0.00%)		
occurrences (all)	0		
Herpes zoster			

subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Nasal vestibulitis subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Nasopharyngitis subjects affected / exposed occurrences (all)	1 / 30 (3.33%) 1		
Osteomyelitis subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Sinusitis subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Upper respiratory tract infection subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Tooth infection subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Urinary tract infection subjects affected / exposed occurrences (all)	2 / 30 (6.67%) 2		
Asymptomatic COVID-19 subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
COVID-19 subjects affected / exposed occurrences (all)	1 / 30 (3.33%) 1		
Metabolism and nutrition disorders			
Hypoglycaemia subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		
Hypokalaemia subjects affected / exposed occurrences (all)	0 / 30 (0.00%) 0		

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
16 December 2020	<ul style="list-style-type: none">• Clarifications made to study visit/assessment timings and procedures in relation to screening, pre-dose assessments, home visits, and coagulation parameters• Minor clarifications made in inclusion criterion #7(b) and exclusion criteria #12 and #29• Clarification that participants must not make changes to or take new concomitant medications without Investigator consultation• Discontinuation of study intervention criteria in relation to ALT/AST parameters expanded

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported