

Clinical trial results:

A Phase 1b, Randomized, Double-Blind, Placebo-Controlled, Multi-Center, Single Ascending Dose Study to Assess the Safety, Efficacy, Pharmacokinetics, and Pharmacodynamics of DS-1040b when Added to Standard of Care Anticoagulation Therapy in Subjects with Acute Submassive Pulmonary Embolism

Summary

EudraCT number	2015-005211-32	
Trial protocol	NL	
Global end of trial date	05 August 2019	
Results information		
Result version number	v1 (current)	
This version publication date	17 August 2020	
First version publication date	17 August 2020	
Trial information		
Trial identification		
Sponsor protocol code	DS1040-B-U107	
Additional study identifiers		
ISRCTN number	-	
ClinicalTrials.gov id (NCT number)	NCT02923115	
WHO universal trial number (UTN)	-	
Notes: Sponsors		
Sponsor organisation name	Daiichi Sankyo	
Sponsor organisation address	211 Mt. Airy Road, Basking Ridge, United States, 07920	
Public contact	Contact for Clinical Trial Information, Daiichi Sankyo, Inc., +1	
- ubile contact	908-992-6400, CTRinfo@dsi.com	
Scientific contact	Contact for Clinical Trial Information, Daiichi Sankyo, Inc., +1 908-992-6400, CTRinfo@dsi.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	
N		

Notes:

Results analysis stage	
Analysis stage	Final
Date of interim/final analysis	05 August 2019
Is this the analysis of the primary completion data?	No
Global end of trial reached?	Yes
Global end of trial date	05 August 2019
Was the trial ended prematurely?	No
- F 7	

Notes:

General information about the trial

Main objective of the trial:

The primary objective of the study is to assess the safety and tolerability of ascending doses of DS-1040b given as a single IV infusion over 12, 24, 48 and 72 hours, respectively, when added to standard of care (SOC) anticoagulation therapy, compared to placebo by evaluating the rate of clinically relevant bleeding (International Society of Thrombosis and Haemostasis (ISTH) major or clinically relevant non-major bleeding [CRNM]).

Protection of trial subjects:

This study was conducted in compliance with the protocol, the ethical principles that have their origin in the Declaration of Helsinki, the International Council for Harmonisation (ICH) consolidated Guideline E6 for Good Clinical Practice (GCP) (CPMP/ICH/135/95), and applicable regulatory requirements.

Background therapy: -

Evidence	for	comparator:	-

Actual start date of recruitment	23 June 2016
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	Netherlands: 25
Country: Number of subjects enrolled	Spain: 2
Country: Number of subjects enrolled	Austria: 2
Country: Number of subjects enrolled	Belgium: 12
Country: Number of subjects enrolled	France: 47
Country: Number of subjects enrolled	Germany: 10
Country: Number of subjects enrolled	United States: 25
Country: Number of subjects enrolled	Italy: 11
Worldwide total number of subjects	134
EEA total number of subjects	109

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)	86
From 65 to 84 years	48
85 years and over	0

Subject disposition

Recruitment

Recruitment details:

A total of 134 subjects who met all inclusion and no exclusion criteria were enrolled in the study at 47 clinic sites (15 in the United States and 32 in Europe). Of the 134 subjects randomized to treatment, 125 received treatment.

Pre-assignment

Screening details:

This study enrolled up to 5 sequential, ascending-dose, continuous infusion cohorts (starting DS1040b dose 20 mg). In Cohorts 1 and 2, eligible subjects were randomized in a 2:1 ratio to either DS-1040b or placebo. Starting with Cohort 3, the ratio changed to 3:1. All participants received standard of care enoxaparin during study drug infusion.

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
Arms	
Are arms mutually exclusive?	Yes
Arm title	Cohort 1: DS-1040b 20 mg
Arm description:	
Subjects who received an intravenous in anticoagulation therapy.	ufusion of 20 mg DS-1040b in addition to standard of care
Arm type	Experimental
Investigational medicinal product name	DS-1040b
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for infusion
Routes of administration	Intravenous use
Dosage and administration details:	
Single, continuous intravenous infusion	over 12 to 24 hours (depending on cohort)
Investigational medicinal product name	Enoxaparin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use
Dosage and administration details:	
Subcutaneous injection 1 mg/kg twice d	aily
Arm title	Cohort 2: DS-1040b 40 mg
Arm description:	1
Subjects who received an intravenous ir anticoagulation therapy.	nfusion of 40 mg DS-1040b in addition to standard of care
Arm type	Experimental
Investigational medicinal product name	DS-1040b
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for infusion
Routes of administration	Intravenous use

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Dosage and administration details:	
	over 12 to 24 hours (depending on cohort)
Investigational medicinal product name	Enoxaparin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use
Dosage and administration details:	
Subcutaneous injection 1 mg/kg twice d	aily
Arm title	Cohort 3: DS-1040b 60 mg
Arm description:	
Subjects who received an intravenous in anticoagulation therapy.	fusion of 60 mg DS-1040b in addition to standard of care
Arm type	Experimental
Investigational medicinal product name	DS-1040b
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for infusion
Routes of administration	Intravenous use
Dosage and administration details:	
Single, continuous intravenous infusion	over 12 to 24 hours (depending on cohort)
Investigational medicinal product name	Enoxaparin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use
Dosage and administration details:	
Subcutaneous injection 1 mg/kg twice d	aily
Arm title	Cohort 4: DS-1040 80 mg
Arm description:	
·	fusion of 80 mg DS-1040b in addition to standard of care
Arm type	Experimental
Investigational medicinal product name	DS-1040b
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for infusion
Routes of administration	Intravenous use
Dosage and administration details:	
_	over 12 to 24 hours (depending on cohort)
Investigational medicinal product name	Enoxaparin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for injection in pre-filled syringe
Routes of administration	Subcutaneous use
Dosage and administration details:	•
Subcutaneous injection 1 mg/kg twice d	aily
Arm title	Cohort 5: DS-1040b 40 mg
	<u> </u>
Arm description: Subjects who received an intravenous in anticoagulation therapy.	Ifusion of 40 mg DS-1040b in addition to standard of care
Arm type	Experimental
	 '

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Investigational medicinal product name	DS-1040b		
Investigational medicinal product code			
Other name			
Pharmaceutical forms	Solution for infusion		
Routes of administration	Intravenous use		
Dosage and administration details:		\prod	
Single, continuous intravenous infusion of	over 12 to 24 hours (depending on cohort)		
Investigational medicinal product name	Enoxaparin	\prod	
Investigational medicinal product code		\prod	
Other name		$ brack egin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	
Pharmaceutical forms	Solution for injection in pre-filled syringe		
Routes of administration	Subcutaneous use		
Dosage and administration details:			
Subcutaneous injection 1 mg/kg twice da	aily	Ш	
Arm title	Placebo		
A 1 '1'	<u> </u>	Ш	111
Arm description:		Ш	1.1
·	fusion of placebo in addition to standard o	f	care anticoagulation
Subjects who received an intravenous in	fusion of placebo in addition to standard o	f	care anticoagulation
Subjects who received an intravenous in therapy.		f	care anticoagulation
Subjects who received an intravenous in therapy. Arm type	Placebo	f c	care anticoagulation
Subjects who received an intravenous in therapy. Arm type Investigational medicinal product name	Placebo	f	tare anticoagulation
Subjects who received an intravenous in therapy. Arm type Investigational medicinal product name Investigational medicinal product code	Placebo Placebo	f	care anticoagulation
Subjects who received an intravenous in therapy. Arm type Investigational medicinal product name Investigational medicinal product code Other name	Placebo Placebo 0.9% Sodium chloride injection	f (care anticoagulation
Subjects who received an intravenous in therapy. Arm type Investigational medicinal product name Investigational medicinal product code Other name Pharmaceutical forms	Placebo Placebo 0.9% Sodium chloride injection Solution for infusion	f	care anticoagulation
Subjects who received an intravenous in therapy. Arm type Investigational medicinal product name Investigational medicinal product code Other name Pharmaceutical forms Routes of administration Dosage and administration details:	Placebo Placebo 0.9% Sodium chloride injection Solution for infusion		
Subjects who received an intravenous in therapy. Arm type Investigational medicinal product name Investigational medicinal product code Other name Pharmaceutical forms Routes of administration Dosage and administration details:	Placebo Placebo 0.9% Sodium chloride injection Solution for infusion Intravenous use		
Subjects who received an intravenous in therapy. Arm type Investigational medicinal product name Investigational medicinal product code Other name Pharmaceutical forms Routes of administration Dosage and administration details: Single, continuous intravenous infusion of	Placebo Placebo 0.9% Sodium chloride injection Solution for infusion Intravenous use of 0.9% sodium chloride over 12 to 24 hour		
Subjects who received an intravenous in therapy. Arm type Investigational medicinal product name Investigational medicinal product code Other name Pharmaceutical forms Routes of administration Dosage and administration details: Single, continuous intravenous infusion of Investigational medicinal product name	Placebo Placebo 0.9% Sodium chloride injection Solution for infusion Intravenous use of 0.9% sodium chloride over 12 to 24 hour		
Subjects who received an intravenous in therapy. Arm type Investigational medicinal product name Investigational medicinal product code Other name Pharmaceutical forms Routes of administration Dosage and administration details: Single, continuous intravenous infusion of Investigational medicinal product name Investigational medicinal product code	Placebo Placebo 0.9% Sodium chloride injection Solution for infusion Intravenous use of 0.9% sodium chloride over 12 to 24 hour		
Subjects who received an intravenous in therapy. Arm type Investigational medicinal product name Investigational medicinal product code Other name Pharmaceutical forms Routes of administration Dosage and administration details: Single, continuous intravenous infusion of Investigational medicinal product name Investigational medicinal product code Other name	Placebo Placebo 0.9% Sodium chloride injection Solution for infusion Intravenous use of 0.9% sodium chloride over 12 to 24 hou Enoxaparin		
Subjects who received an intravenous in therapy. Arm type Investigational medicinal product name Investigational medicinal product code Other name Pharmaceutical forms Routes of administration Dosage and administration details: Single, continuous intravenous infusion of Investigational medicinal product name Investigational medicinal product code Other name Pharmaceutical forms	Placebo Placebo 0.9% Sodium chloride injection Solution for infusion Intravenous use of 0.9% sodium chloride over 12 to 24 hou Enoxaparin Solution for injection in pre-filled syringe		

Number of subjects in period 1	Cohort 1: DS-1040b 20 mg	Cohort 2: DS-1040b 40 mg	Cohort 3: DS-1040b 60 mg
	== 1119		55 1119
Started	12	16	23
Treated	12	16	20
Completed	12	15	20
Not completed	0	1	3///

Completed	21	17	38
Not completed	2	5	0
Consent withdrawn by subject	-	-	-
Lost to follow-up	1	-	-
Randomized, but not dosed	1	5	-

Reporting groups

Reporting group title Cohort 1: DS-1040b 20 mg

Reporting group description:

Subjects who received an intravenous infusion of 20 mg DS-1040b in addition to standard of care anticoagulation therapy.

Reporting group title Cohort 2: DS-1040b 40 mg

Reporting group description:

Subjects who received an intravenous infusion of 40 mg DS-1040b in addition to standard of care anticoagulation therapy.

Reporting group title Cohort 3: DS-1040b 60 mg

Reporting group description:

Subjects who received an intravenous infusion of 60 mg DS-1040b in addition to standard of care anticoagulation therapy.

Reporting group title Cohort 4: DS-1040 80 mg

Reporting group description:

Subjects who received an intravenous infusion of 80 mg DS-1040b in addition to standard of care anticoagulation therapy.

Reporting group title Cohort 5: DS-1040b 40 mg

Reporting group description:

Subjects who received an intravenous infusion of 40 mg DS-1040b in addition to standard of care anticoagulation therapy.

Reporting group title Placebo

Reporting group description:

Subjects who received an intravenous infusion of placebo in addition to standard of care anticoagulation therapy.

Reporting group values	Cohort 1: DS-1040b		
3 3 3 4	20 mg	40 mg	60 mg
Number of subjects	12	16	23
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)	8	7	14
From 65-84 years	4	9	9
85 years and over	0	0	0
Age continuous			
Units: years			
arithmetic mean	56.1	62.1	55.1
standard deviation	± 16.3	± 10.9	± 17.5
Gender categorical			
Units: Subjects			
Female	4	8	5
Male	8	8	18

Reporting group values	Cohort 4: DS-1040 80 mg	Cohort 5: DS-1040b 40 mg	Placebo
Number of subjects	23	22	38
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)	16	18	23
From 65-84 years	7	4	15
85 years and over	0	0	0
Age continuous			
Units: years			
arithmetic mean	55.0	56.5	58.3
standard deviation	± 13.5	± 9.8	± 10.7
Gender categorical			
Units: Subjects			
Female	8	7	12
Male	15	15	26
Reporting group values	Total		
Number of subjects	134		
Age categorical			
Units: Subjects			
In utero	0		
Preterm newborn infants (gestational age < 37 wks)	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)	86		
From 65-84 years	48		
85 years and over	0		
Age continuous			
Units: years			
arithmetic mean			
standard deviation			
Gender categorical			
Units: Subjects			
Female	44		
Male	90		

End points reporting groups	
Reporting group title	Cohort 1: DS-1040b 20 mg
Reporting group description:	
Subjects who received an intravenous i anticoagulation therapy.	nfusion of 20 mg DS-1040b in addition to standard of care
Reporting group title	Cohort 2: DS-1040b 40 mg
Reporting group description:	
Subjects who received an intravenous i anticoagulation therapy.	nfusion of 40 mg DS-1040b in addition to standard of care
Reporting group title	Cohort 3: DS-1040b 60 mg
Reporting group description:	
Subjects who received an intravenous i anticoagulation therapy.	nfusion of 60 mg DS-1040b in addition to standard of care
Reporting group title	Cohort 4: DS-1040 80 mg
Reporting group description:	
Subjects who received an intravenous i anticoagulation therapy.	nfusion of 80 mg DS-1040b in addition to standard of care
Reporting group title	Cohort 5: DS-1040b 40 mg
Reporting group description:	
Subjects who received an intravenous i anticoagulation therapy.	nfusion of 40 mg DS-1040b in addition to standard of care
Reporting group title	Placebo
Reporting group description:	
Subjects who received an intravenous i therapy.	nfusion of placebo in addition to standard of care anticoagulation
Events Following Intravenous II	periencing Adjudicated Clinically Relevant Bleeding of DS-1040b or Placebo in Addition to on Therapy in Subjects With Acute Submassive
End point title	Number of Subjects Experiencing Adjudicated Clinically Relevant Bleeding Events Following Intravenous Infusion of DS-1040b or Placebo in Addition to Standard of Care Anticoagulation Therapy in Subjects With Acute Submassive Pulmonary Embolism ^[1]
End point description:	
	as major or clinically relevant non-major (CRNM) bleeding mittee (CEC) based on International Society of Thrombosis and CEC charter.
End point type	Primary
End point timeframe:	
Life point differance.	

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: Descriptive analyses were performed based on the study groups and study drugs administered for this outcome.

End point values	Cohort 1: DS- 1040b 20 mg	Cohort 2: DS- 1040b 40 mg	Cohort 3: DS- 1040b 60 mg	Cohort 4: DS- 1040 80 mg
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	12	16	20	22
Units: Subjects				
number (not applicable)				
At least 1 bleeding event	4	3	3	4
Major bleeding event	0	0	0	1
Non-major clinically relevant bleeding event	0	0	0	2
Minor or nuisance bleeding event	3	2	3	2
Fatal bleeding event	0	0	0	0
Bleeding with Hb drop ≥2g/dL, transfusion ≥2 units	0	0	0	1

End point values	Cohort 5: DS- 1040b 40 mg	Placebo	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	17	38	
Units: Subjects			
number (not applicable)			
At least 1 bleeding event	1	10	
Major bleeding event	0	00	
Non-major clinically relevant bleeding event	1	1	
Minor or nuisance bleeding event	0	6	
Fatal bleeding event	0	0	
Bleeding with Hb drop ≥2g/dL, transfusion ≥2 units	0	0	

No statistical analyses for this end point

Secondary: Mean Percent Change From Baseline in Total Thrombus Volume at 12-72 Hours Post Start of Infusion of DS-1040b Compared to Placebo When Added to Standard of Care Anticoagulation Therapy in Subjects With Acute Submassive Pulmonary Embolism

Mean Percent Change From Baseline in Total Thrombus Volume at 12-72 Hours Post Start of Infusion of DS-1040b Compared
to Placebo When Added to Standard of Care Anticoagulation
Therapy in Subjects With Acute Submassive Pulmonary
Embolism

End point description:

The change from baseline in total thrombus volume was assessed by computed tomography angiography in segmental or larger pulmonary arteries following intravenous infusion of DS-1040b or placebo in addition to standard of care anticoagulation therapy.

End point type Secondary

End point timeframe:

Baseline to 12-72 hours post start of infusion, up to approximately 3 years 2 months

End point values	Cohort 1: DS- 1040b 20 mg	Cohort 2: DS- 1040b 40 mg	Cohort 3: DS- 1040b 60 mg	Cohort 4: DS- 1040 80 mg
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	11	15	20	22
Units: Percent change				
arithmetic mean (standard deviation)				
Mean percent change from baseline	-23.78 (± 24.49)	-38.67 (± 17.34)	-33.50 (± 17.41)	-37.36 (± 26.90)

End point values	Cohort 5: DS- 1040b 40 mg	Placebo	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	16	36	
Units: Percent change			
arithmetic mean (standard deviation)			
Mean percent change from baseline	-32.33 (± 19.03)	-31.35 (± 17.74)	

No statistical analyses for this end point

Secondary: Subjects Achieving Reductions in Total Thrombus Volume at 12-72 Hours Post Infusion of DS-1040b Compared to Placebo When Added to Standard of Care Anticoagulation Therapy in Subjects With Acute Submassive Pulmonary Embolism

End point title	Subjects Achieving Reductions in Total Thrombus Volume at
·	12-72 Hours Post Infusion of DS-1040b Compared to Placebo
	When Added to Standard of Care Anticoagulation Therapy in
	Subjects With Acute Submassive Pulmonary Embolism

End point description:

Change in total pulmonary thrombus burden (total thrombus volume) was assessed by computed tomography pulmonary angiography (CTPA). All CTPA scans were evaluated by a central imaging laboratory in a blinded manner by radiologists.

End point type	Secondary
Life point type	Secondary

End point timeframe:

Baseline to 12-72 hours post start of infusion, up to approximately 3 years 2 months

End point values	Cohort 1: DS- 1040b 20 mg	Cohort 2: DS- 1040b 40 mg	Cohort 3: DS- 1040b 60 mg	Cohort 4: DS- 1040 80 mg
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	12	15	20	22
Units: Subjects				
number (not applicable)				
No change or increase	2	0	1	0
<20% reduction	2	3	3	5
≥20% reduction	7	12	16	17
Missing data	1	0	0	0

End point values	Cohort 5: DS- 1040b 40 mg	Placebo	
Subject group type	Reporting group	Reporting group	
Number of subjects analysed	17	38	
Units: Subjects			
number (not applicable)			
No change or increase	1	3	
<20% reduction	3	5	
≥20% reduction	12	28	
Missing data	1	2	

No statistical analyses for this end point

Secondary: Pharmacokinetic (PK) Parameter Maximum Concentration (Cmax) Following Intravenous Infusion of DS-1040b in Addition to Standard of Care Anticoagulation Therapy in Subjects With Acute Submassive Pulmonary Embolism

End point title	Pharmacokinetic (PK) Parameter Maximum Concentration
·	(Cmax) Following Intravenous Infusion of DS-1040b in Addition
	to Standard of Care Anti-coagulation Therapy in Subjects With
	Acute Submassive Pulmonary Embolism ^[2]

End point description:

Plasma concentrations at each time point and PK parameter Cmax of DS 1040b was calculated using noncompartmental analysis.

End point type	Secondary
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End point timeframe:

Cohort 1: 0 up to 72 h post infusion; Cohorts 2 and 3: 0 up to 96 h post infusion; Cohort 4 and 5: 0 up to 120 h post infusion

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: Descriptive analyses were performed based on the study groups and study drugs administered for this outcome.

End point values	Cohort 1: DS- 1040b 20 mg	Cohort 2: DS- 1040b 40 mg	Cohort 3: DS- 1040b 60 mg	Cohort 4: DS- 1040 80 mg
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	11	15	19	22
Units: ng/mL				
arithmetic mean (standard deviation)				
Cmax	970.09 (± 1373.43)	421.73 (± 515.57)	608.84 (± 562.94)	1006.41 (± 1883.49)

End point values	Cohort 5: DS- 1040b 40 mg		
Subject group type	Reporting group		
Number of subjects analysed	17		
Units: ng/mL			
arithmetic mean (standard deviation)			
Cmax	526.12 (± 535.03)		

No statistical analyses for this end point

Secondary: Pharmacokinetic Parameter Area Under the Concentration Versus Time Curve (O to Last) Following Intravenous Infusion of DS-1040b In Addition to Standard of Care Anti-coagulation Therapy in Participants With Acute Submassive Pulmonary Embolism

Pharmacokinetic Parameter Area Under the Concentration Versus Time Curve (0 to Last) Following Intravenous Infusion of DS-1040b In Addition to Standard of Care Anti-coagulation Therapy in Participants With Acute Submassive Pulmonary
· · · · · · · · · · · · · · · · · · ·
Embolism ^[3]

End point description:

Plasma concentrations at each time point and PK parameter of Area Under the Concentration Versus Time Curve (0 to last) of DS 1040b was calculated using non-compartmental analysis.

End point type Secondary

End point timeframe:

Cohort 1: 0 up to 72 h post infusion; Cohorts 2 and 3: 0 up to 96 h post infusion; Cohort 4 and 5: 0 up to 120 h post infusion

Notes:

[3] - 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: Descriptive analyses were performed based on the study groups and study drugs administered for this outcome.

End point values	Cohort 1: DS- 1040b 20 mg	Cohort 2: DS- 1040b 40 mg	Cohort 3: DS- 1040b 60 mg	Cohort 4: DS- 1040 80 mg
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	11	15	19	22
Units: ng*h/mL				
arithmetic mean (standard deviation)				
AUC(0 to last)	5532.92 (± 4090.34)	7819.53 (± 2870.13)	13403.15 (± 8047.13)	17147.27 (± 15024.61)

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End point values	Cohort 5: DS- 1040b 40 mg		
Subject group type	Reporting group		
Number of subjects analysed	17		
Units: ng*h/mL			
arithmetic mean (standard deviation)			
AUC(0 to last)	8014.73 (± 2870.19)		

No statistical analyses for this end point

Secondary: Pharmacokinetic Parameter Terminal Half-life Following Intravenous Infusion of DS-1040b Combined With Standard of Care Anti-coagulation Therapy in Subjects With Acute Submassive Pulmonary Embolism

End point title	Pharmacokinetic Parameter Terminal Half-life Following
	Intravenous Infusion of DS-1040b Combined With Standard of
	Care Anti-coagulation Therapy in Subjects With Acute
	Submassive Pulmonary Embolism ^[4]

End point description:

Plasma concentrations at each time point and PK parameter Terminal Half-life of DS 1062b was calculated using noncompartmental analysis.

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End point timeframe:

Cohort 1: 0 up to 72 h post infusion; Cohorts 2 and 3: 0 up to 96 h post infusion; Cohort 4 and 5: 0 up to 120 h post infusion

Notes:

[4] - 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: Descriptive analyses were performed based on the study groups and study drugs administered for this outcome.

End point values	Cohort 1: DS- 1040b 20 mg	Cohort 2: DS- 1040b 40 mg	Cohort 3: DS- 1040b 60 mg	Cohort 4: DS- 1040 80 mg
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	9	13	18	5
Units: hours				
arithmetic mean (standard deviation)				
Terminal half-life	22.81 (± 3.13)	28.44 (± 5.75)	29.06 (± 7.60)	36.39 (± 2.07)

End point values	Cohort 5: DS- 1040b 40 mg		
Subject group type	Reporting group		
Number of subjects analysed	9		
Units: hours			
arithmetic mean (standard deviation)			

Terminal half-life	30.06 (± 3.45)		
totictical analyses			

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Statistical analyses

No statistical analyses for this end point

Adverse events information

Timeframe for reporting adverse events:

Treatment-emergent adverse events (TEAEs) were collected from baseline up to Day 30 post infusion, up to approximately 3 years 2 months.

Adverse event reporting additional description:

A TEAE is defined as an adverse event that emerges during treatment, having been absent pretreatment, or worsening relative to the pre-treatment state.

Assessment type	Systematic	
Dictionary used		
Dictionary name	MedDRA	
Dictionary version	19.1	
Reporting groups		

Cohort 1: DS-1040b 20 mg

Reporting group description:

Reporting group title

Subjects who received an intravenous infusion of 20 mg DS-1040b in addition to standard of care anticoagulation therapy.

Reporting group title	Cohort 2: DS-1040b 40 mg
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Reporting group description:

Subjects who received an intravenous infusion of 40 mg DS-1040b in addition to standard of care anticoagulation therapy.

Reporting group title	Cohort 3: DS-1040b 60 mg
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Reporting group description:

Subjects who received an intravenous infusion of 60 mg DS-1040b in addition to standard of care anticoagulation therapy.

Reporting group title	Cohort 4: DS-1040 80 mg
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Reporting group description:

Subjects who received an intravenous infusion of 80 mg DS-1040b in addition to standard of care anticoagulation therapy.

Reporting group title	Cohort 5: DS-1040b 40 mg

Reporting group description:

Subjects who received an intravenous infusion of 40 mg DS-1040b in addition to standard of care anticoagulation therapy.

anticoagaiation therapy:	
Reporting group title	Placebo

Reporting group description:

Subjects who received an intravenous infusion of placebo in addition to standard of care anticoagulation therapy.

Serious adverse events	Cohort 1: DS-1040b 20 mg	Cohort 2: DS-1040b 40 mg	Cohort 3: DS-1040b 60 mg
Total subjects affected by serious adverse events			
subjects affected / exposed	3 / 12 (25.00%)	0 / 16 (0.00%)	2 / 20 (10.00%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events	0	0	0
Neoplasms benign, malignant and unspecified (incl cysts and polyps) Colon neoplasm			

subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (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
Metastases to liver			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (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
Metastases to nervous system			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Metastases to peritoneum			
subjects affected / exposed			0 / 20 (0.00%)

Hepatobiliary disorders			
Hepatocellular injury			
subjects affected / exposed	1 / 12 (8.33%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences causally related to treatment / all	1/1	0/0	0/0
deaths causally related to treatment / all	0 / 0	0 / 0	0/0
Respiratory, thoracic and mediastinal disorders			
Pleural effusion			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (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
Pulmonary embolism			
subjects affected / exposed	1 / 12 (8.33%)	0 / 16 (0.00%)	0 / 20 (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
Pulmonary infarction			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (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
Psychiatric disorders			
Depression			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (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
Infections and infestations			
Anal abscess			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Infection			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (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
Lung infection			İ

subjects affected / exposed	1 / 12 (8.33%)	0 / 16 (0.00%)	0 / 20 (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
Pneumonia			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (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

Serious adverse events	Cohort 4: DS-1040 80 mg	Cohort 5: DS-1040b 40 mg	Placebo
Total subjects affected by serious adverse events			
subjects affected / exposed	1 / 22 (4.55%)	3 / 17 (17.65%)	5 / 38 (13.16%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events	0	0	0
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Colon neoplasm			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0/0	0 / 0	0 / 0
Metastases to liver			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0/0	0 / 0	0 / 0
Metastases to nervous system			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (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
Metastases to peritoneum	1		
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences causally related to treatment / all	0/0	0/0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Testicular cancer metastatic	İ		
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (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

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Cardiac disorders			
Sinus tachycardia			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Nervous system disorders			
Presyncope			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (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
Reproductive system and breast disorders			
Endometrial hyperplasia			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (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
Hepatobiliary disorders			
Hepatocellular injury			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (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			
Pleural effusion			
subjects affected / exposed	0 / 22 (0.00%)	1 / 17 (5.88%)	0 / 38 (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
Pulmonary embolism			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (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
Pulmonary infarction	l i		
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences causally related to treatment / all	0 / 0	0/0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
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Psychiatric disorders	1		

Depression			
subjects affected / exposed	0 / 22 (0.00%)	1 / 17 (5.88%)	1 / 38 (2.63%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Infections and infestations			
Anal abscess			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (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
Infection			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Lung infection			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pneumonia			
subjects affected / exposed	0 / 22 (0.00%)	1 / 17 (5.88%)	0 / 38 (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

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

rrequericy threshold for reporting horr-serious adverse events. 0 %			
Non-serious adverse events	Cohort 1: DS-1040b 20 mg	Cohort 2: DS-1040b 40 mg	Cohort 3: DS-1040b 60 mg
Total subjects affected by non-serious adverse events			
subjects affected / exposed	8 / 12 (66.67%)	6 / 16 (37.50%)	13 / 20 (65.00%)
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Metastases to nervous system			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
Testicular cancer metastatic			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1

Vascular disorders			
Circulatory collapse			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Deep vein thrombosis			
subjects affected / exposed	2 / 12 (16.67%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	2	0	1
(4.1)	2	U	1
Haemorrhage			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Hypertension			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
Hypotension			
subjects affected / exposed	0 / 12 / 0 000/)	1 / 16 /6 250/)	0 / 20 /0 00%)
	0 / 12 (0.00%)	1 / 16 (6.25%)	0 / 20 (0.00%)
occurrences (all)	0	1	0
Surgical and medical procedures			
Sinus operation			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
General disorders and administration site conditions			
Chest pain			
subjects affected / exposed	0 / 12 (0.00%)	1 / 16 (6.25%)	0 / 20 (0.00%)
occurrences (all)	0	1	0
Feeling cold			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Feeling hot			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)			
accurrences (any	0	0	0
Infusion site extravasation			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Infusion site phlebitis			
subjects affected / exposed	1 / 12 (8.33%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	1	0	0

Malaise			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
Non-cardiac chest pain			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Peripheral swelling subjects affected / exposed	0 / 12 (0.00%)	1 / 16 (6.25%)	0 / 20 (0.00%)
occurrences (all)	0	1	0
Pyrexia			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Vessel puncture site haematoma			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Reproductive system and breast			
disorders			
Endometrial hyperplasia subjects affected / exposed	0 / 12 / 0 000/)	0 / 16 / 0 000/)	0 / 20 /0 000/)
	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Gynaecomastia			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Vaginal haemorrhage			
subjects affected / exposed	1 / 12 (8.33%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	1	0	0
Respiratory, thoracic and mediastinal			
disorders			
Cough subjects affected / exposed	1 / 12 (8.33%)	0 / 16 (0.00%)	0 / 30 (0 00%)
occurrences (all)			0 / 20 (0.00%)
occurrences (un)	1	0	0
Dyspnoea			
subjects affected / exposed	0 / 12 (0.00%)	1 / 16 (6.25%)	1 / 20 (5.00%)
occurrences (all)	0	1	1
Epistaxis			
subjects affected / exposed	2 / 12 (16.67%)	2 / 16 (12.50%)	2 / 20 (10.00%)
occurrences (all)	2	2	2
Haemoptysis			

subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
decarrences (an)		0	1
Hyperventilation			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
Pleural effusion			
subjects affected / exposed	1 / 12 (8.33%)	0 / 16 (0.00%)	2 / 20 (10.00%)
occurrences (all)	1	0	2
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Pleurisy			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Pulmonary embolism			
subjects affected / exposed	1 / 12 (8.33%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	1	0	0
Pulmonary infarction			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Psychiatric disorders			
Anxiety			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	2 / 20 (10.00%)
occurrences (all)	0	0	2
Delirium			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Depression			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Investigations			
Aspartate aminotransferase increased			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Pland processes increased			
Blood pressure increased subjects affected / exposed	1 / 12 /0 220/ \	0 / 16 /0 000/)	0 / 20 /0 000/ \
	1 / 12 (8.33%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	1	0	0
Crystal urine present	1		

subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Electrocardiogram QT prolonged			
subjects affected / exposed	1 / 12 (8.33%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	1	0	0
Electrocardiogram T wave inversion			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
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Electrocardiogram abnormal			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
Liver function test increased			
subjects affected / exposed	1 / 12 (8.33%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	1	0	0
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Mean cell volume increased			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Occult blood positive			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
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Urobilinogen urine increased			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Injury, poisoning and procedural			
complications			
Clavicle fracture			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Skin abrasion			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
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Synovial rupture			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Urinary retention postoperative			
ormary recention postoperative	I	I	l l

subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
Cardiac disorders			
Atrial fibrillation			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Bundle branch block right			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Right ventricular dysfunction			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
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Sinus tachycardia			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Nervous system disorders			
Dizziness			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
Haemorrhage intracranial			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
Headache			
subjects affected / exposed	1 / 12 (8.33%)	0 / 16 (0.00%)	3 / 20 (15.00%)
occurrences (all)	1	,	
decarrences (un)	1	0	3
Lethargy			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Migraine			
subjects affected / exposed	1 / 12 (8.33%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)			
occurrences (aii)	1	0	1
Muscle spasticity			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Presyncope			

subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
Tremor			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Blood and lymphatic system disorders Anaemia			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
l			
Microcytic anaemia subjects affected / exposed	1 / 12 (8.33%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	1 / 12 (8.33%)	0 / 10 (0.00%)	0 / 20 (0.00%)
Cood. Circo (a.r)	1	O	U
Ear and labyrinth disorders			
Tinnitus subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0 12 (0.00 %)	0	1 / 20 (3.00 /0)
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Vertigo			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Eye disorders			
Vision blurred			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
Gastrointestinal disorders			
Abdominal discomfort			
subjects affected / exposed	0 / 12 (0.00%)	1 / 16 (6.25%)	1 / 20 (5.00%)
occurrences (all)	0	1	1
Abdominal distension			
subjects affected / exposed	0 / 12 (0.00%)	1 / 16 (6.25%)	0 / 20 (0.00%)
occurrences (all)	0	1	0
Abdominal pain			
subjects affected / exposed	0 / 12 (0.00%)	1 / 16 (6.25%)	0 / 20 (0.00%)
occurrences (all)	0	1	0
Anal haemorrhage subjects affected / exposed	1 / 12 /0 220/ \	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	1 / 12 (8.33%)		
occurrences (un)	1	0	0
Constipation			İ

subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	2 / 20 (10.00%)
occurrences (all)	0	0	2
Diarrhoea			
subjects affected / exposed	2 / 12 (16.67%)	1 / 16 (6.25%)	2 / 20 (10.00%
occurrences (all)	2	1	2
Faeces discoloured			
subjects affected / exposed	0 / 12 (0.00%)	1 / 16 (6.25%)	0 / 20 (0.00%)
occurrences (all)	0	1	0
Nausea			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
Paraesthesia oral			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
Vomiting			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	2 / 20 (10.00%
occurrences (all)	0	0	2
epatobiliary disorders			l

Dysuria			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
 Haematuria			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
Ketonuria			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Proteinuria			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Urine abnormality			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Musculoskeletal and connective tissue			
disorders Arthralgia			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
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Arthritis			
subjects affected / exposed	0 / 12 (0.00%)	1 / 16 (6.25%)	0 / 20 (0.00%)
occurrences (all)	0	1	0
Back pain			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Bursitis			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Groin pain			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Muscle contracture			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Musculoskeletal discomfort			

subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Pain in extremity subjects affected / exposed	0 / 12 /0 000/)	0 / 16 / 0 000/)	0 / 20 /0 000/)
	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Spinal pain			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Infections and infestations			
Abscess limb			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Anal abscess			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	1 / 20 (5.00%)
occurrences (all)	0	0	1
Appendicitis			
subjects affected / exposed	0 / 12 (0.00%)	1 / 16 (6.25%)	0 / 20 (0.00%)
occurrences (all)	0	1	0
	-		-
Bacteriuria			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Infection			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
		_	-
Lung infection			
subjects affected / exposed	1 / 12 (8.33%)	0 / 16 (0.00%)	2 / 20 (10.00%)
occurrences (all)	1	0	2
Oral fungal infection			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Pneumonia			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Respiratory tract infection			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	2 / 20 (10.00%)
occurrences (all)	0	0	2

Urinary tract infection subjects affected / exposed occurrences (all)	0 / 12 (0.00%) 0	1 / 16 (6.25%) 1	2 / 20 (10.00%)
Metabolism and nutrition disorders			
Folate deficiency			
subjects affected / exposed	0 / 12 (0.00%)	0 / 16 (0.00%)	0 / 20 (0.00%)
occurrences (all)	0	0	0
Hyperphosphataemia subjects affected / exposed occurrences (all)	1 / 12 (8.33%) 1	0 / 16 (0.00%) 0	0 / 20 (0.00%) 0
Hypokalaemia subjects affected / exposed occurrences (all)	0 / 12 (0.00%) 0	0 / 16 (0.00%) 0	0 / 20 (0.00%) 0

Non-serious adverse events	Cohort 4: DS-1040 80 mg	Cohort 5: DS-1040b 40 mg	Placebo
Total subjects affected by non-serious adverse events			
subjects affected / exposed	10 / 22 (45.45%)	8 / 17 (47.06%)	25 / 38 (65.79%)
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Metastases to nervous system			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Testicular cancer metastatic			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Vascular disorders			
Circulatory collapse			
subjects affected / exposed	0 / 22 (0.00%)	1 / 17 (5.88%)	0 / 38 (0.00%)
occurrences (all)	0	1	0
Deep vein thrombosis			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
Haemorrhage			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
Hypertension			

subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Hypotension			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Surgical and medical procedures			
Sinus operation			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
General disorders and administration site conditions			
Chest pain			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Feeling cold			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	1	0	0
Feeling hot			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
Infusion site extravasation			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0 00%)	0 / 39 (0 00%)
occurrences (all)		0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (aii)	1	0	0
Infusion site phlebitis			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Malaise			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Non-cardiac chest pain			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	2 / 38 (5.26%)
occurrences (all)			
occurrences (an)	0	0	2
Peripheral swelling			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Pyrexia			

subjects affected / exposed	0 / 22 (0.00%)	1 / 17 (5.88%)	0 / 38 (0.00%)
occurrences (all)	0	1	0
Vessel puncture site haematoma			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	1	0	0
Reproductive system and breast disorders			
Endometrial hyperplasia			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	1	0	0
Gynaecomastia			
subjects affected / exposed	0 / 22 (0.00%)	1 / 17 (5.88%)	0 / 38 (0.00%)
occurrences (all)	0	1	0
Vaginal haemorrhage			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	1	0	0
Respiratory, thoracic and mediastinal			
disorders			
Cough subjects affected / exposed	0 / 22 / 0 000/)	0 / 17 (0 000()	0 / 20 /0 000/)
	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Dyspnoea			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Epistaxis			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	3 / 38 (7.89%)
occurrences (all)	0	0	3
Haemoptysis			
subjects affected / exposed	1 / 22 (4.55%)	1 / 17 (5.88%)	3 / 38 (7.89%)
occurrences (all)	1	1	3
Hyperventilation			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
(4)	U	U	U
Pleural effusion			
subjects affected / exposed	0 / 22 (0.00%)	1 / 17 (5.88%)	2 / 38 (5.26%)
occurrences (all)	0	1	2
Pleurisy			

Delirium subjects affected / exposed occurrences (all) 0 1 0 0 0 0 0 0 0 0	subjects affected / exposed	0 / 22 (0.00%)	1 / 17 (5.88%)	0 / 38 (0.00%)
Pulmonary embolism subjects affected / exposed occurrences (all) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
subjects affected / exposed occurrences (all) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	occurrences (un)	U	1	Ü
Occurrences (all) Pulmonary infarction subjects affected / exposed occurrences (all) 1 / 22 (4.55%) 0 / 17 (5.88%) 1 / 38 (2.63%) 1 / 38 (2	Pulmonary embolism			
Pulmonary infarction subjects affected / exposed occurrences (all) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
subjects affected / exposed occurrences (all) Psychiatric disorders Anxiety subjects affected / exposed occurrences (all) Delirium subjects affected / exposed occurrences (all) Depression Subjects affected / exposed occurrences (all) Depression Subjects affected / exposed occurrences (all) Depression Subjects affected / exposed occurrences (all) Depression Subjects affected / exposed occurrences (all) Depression Subjects affected / exposed occurrences (all) Depression Subjects affected / exposed occurrences (all) Depression Subjects affected / exposed occurrences (all) Depression Subjects affected / exposed occurrences (all) Depression Subjects affected / exposed occurrences (all) Depression Subjects affected / exposed occurrences (all) Depression Subjects affected / exposed occurrences (all) Depression Subjects affected / exposed occurrences (all) Depression	occurrences (all)	0	0	0
subjects affected / exposed occurrences (all) Psychiatric disorders Anxiety subjects affected / exposed occurrences (all) Delirium subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression Subjects affected / exposed occurrences (all) Depression	Pulmonary infarction			
Occurrences (all) 1 1 1 1 Psychiatric disorders Anxiety subjects affected / exposed occurrences (all) Delirium subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression o	·	1 / 22 (4.55%)	1 / 17 (5.88%)	1 / 38 (2.63%)
Psychiatric disorders				
Anxiety subjects affected / exposed occurrences (all) Delirium subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Investigations Aspartate aminotransferase increased subjects affected / exposed occurrences (all) Depression Aspartate aminotransferase increased subjects affected / exposed occurrences (all) Depression Aspartate aminotransferase increased subjects affected / exposed occurrences (all) Depression Aspartate aminotransferase increased subjects affected / exposed occurrences (all) Depression O / 22 (0.00%) O / 17 (0.00%) O / 38 (2.63%) O / 17 (0.00%) O / 38 (0.00%) O / 38 (0.00%) O / 38 (0.00%) O / 38 (0.00%) O / 38 (0.00%) O / 38 (0.00%) O / 38 (0.00%) O / 38 (0.00%) O / 38 (0.00%) O / 38 (0.00%) O / 38 (0.00%) O / 38 (0.00%) O / 38 (0.00%) O / 38 (0.00%)	(,	1	1	1
subjects affected / exposed occurrences (all) 0 / 22 (0.00%) 0 0 / 17 (0.00%) 0 0 / 38 (0.00%) 0 Delirium subjects affected / exposed occurrences (all) 0 / 22 (0.00%) 0 0 / 17 (0.00%) 1 / 38 (2.63%) 0 1 / 38 (2.63%) 0 Depression subjects affected / exposed occurrences (all) 0 / 22 (0.00%) 1 / 17 (5.88%) 1 / 38 (2.63%) 0 1 / 38 (2.63%) 0 Investigations Aspartate aminotransferase increased subjects affected / exposed occurrences (all) 1 / 22 (4.55%) 0 / 17 (0.00%) 1 / 38 (2.63%) 0 Blood pressure increased subjects affected / exposed occurrences (all) 0 / 22 (0.00%) 0 / 17 (0.00%) 0 / 38 (0.00%) 0 Crystal urine present subjects affected / exposed occurrences (all) 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%) 0 0 / 22 (0.00%) occurrences (all) 0 / 17 (0.00%) 0 / 38 (0.00%) 0	Psychiatric disorders			
occurrences (all) Delirium subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Depression subjects affected / exposed occurrences (all) Investigations Aspartate aminotransferase increased subjects affected / exposed occurrences (all) Depression 1 / 17 (5.88%) 1 / 38 (2.63%) 1 / 1	•			
Delirium subjects affected / exposed occurrences (all) 0 / 22 (0.00%) 0 / 17 (0.00%) 1 / 38 (2.63%) 0 1 Depression subjects affected / exposed occurrences (all) 0 1 1 1 Investigations Aspartate aminotransferase increased subjects affected / exposed occurrences (all) 1 0 1 Blood pressure increased subjects affected / exposed occurrences (all) 1 0 1 Blood pressure increased subjects affected / exposed occurrences (all) 0 0 0 0 0 0 0 Crystal urine present subjects affected / exposed occurrences (all) 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
subjects affected / exposed occurrences (all) 0 / 22 (0.00%) 0 / 17 (0.00%) 1 / 38 (2.63%) 0 1 Depression subjects affected / exposed occurrences (all) 0 / 1 / 17 (5.88%) 1 / 38 (2.63%) 0 1 / 1 Investigations Aspartate aminotransferase increased subjects affected / exposed occurrences (all) 1 / 1 / 17 (0.00%) 1 / 38 (2.63%) 0 / 17 (0.00%) 1 / 38 (2.63%) 0 / 17 (0.00%) 0 / 38 (occurrences (all)	0	0	0
subjects affected / exposed occurrences (all) 0 / 22 (0.00%) 0 / 17 (0.00%) 1 / 38 (2.63%) 0 1 Depression subjects affected / exposed occurrences (all) 0 / 1 / 17 (5.88%) 1 / 38 (2.63%) 0 1 / 1 Investigations Aspartate aminotransferase increased subjects affected / exposed occurrences (all) 1 / 1 / 17 (0.00%) 1 / 38 (2.63%) 0 / 17 (0.00%) 1 / 38 (2.63%) 0 / 17 (0.00%) 0 / 38 (Delirium			
Occurrences (all) 0 0 1 Depression subjects affected / exposed occurrences (all) 0 / 22 (0.00%) 1 / 17 (5.88%) 1 / 38 (2.63%) Occurrences (all) 0 1 1 Investigations Aspartate aminotransferase increased subjects affected / exposed occurrences (all) 1 / 22 (4.55%) 0 / 17 (0.00%) 1 / 38 (2.63%) Occurrences (all) 1 0 1 1 Blood pressure increased subjects affected / exposed occurrences (all) 0 / 22 (0.00%) 0 / 17 (0.00%) 0 / 38 (0.00%) Occurrences (all) 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%) Occurrences (all) 1 0 0	subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
subjects affected / exposed occurrences (all) 0 / 22 (0.00%) 1 / 17 (5.88%) 1 / 38 (2.63%) Investigations Aspartate aminotransferase increased subjects affected / exposed occurrences (all) 1 / 22 (4.55%) 0 / 17 (0.00%) 1 / 38 (2.63%) Blood pressure increased subjects affected / exposed occurrences (all) 0 / 22 (0.00%) 0 / 17 (0.00%) 0 / 38 (0.00%) Crystal urine present subjects affected / exposed occurrences (all) 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%) 0 ccurrences (all) 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%)	occurrences (all)			
subjects affected / exposed occurrences (all) 0 / 22 (0.00%) 1 / 17 (5.88%) 1 / 38 (2.63%) Investigations Aspartate aminotransferase increased subjects affected / exposed occurrences (all) 1 / 22 (4.55%) 0 / 17 (0.00%) 1 / 38 (2.63%) Blood pressure increased subjects affected / exposed occurrences (all) 0 / 22 (0.00%) 0 / 17 (0.00%) 0 / 38 (0.00%) Crystal urine present subjects affected / exposed occurrences (all) 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%) 0 ccurrences (all) 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%)		-	-	
occurrences (all) 0 1 Investigations Aspartate aminotransferase increased subjects affected / exposed occurrences (all) 1 Blood pressure increased subjects affected / exposed occurrences (all) 0 1 0 1 1 1 1 1 1 1 1 1 1	·			
Investigations Aspartate aminotransferase increased subjects affected / exposed occurrences (all) Blood pressure increased subjects affected / exposed occurrences (all) 0 / 17 (0.00%) 1 / 38 (2.63%) 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%) 0 / 38 (0.00%) 0 / 38 (0.00%) 1 / 38 (0.00%) 0 / 38 (0.00%) 0 / 38 (0.00%) 0 / 38 (0.00%) 0 / 38 (0.00%) 1 / 22 (4.55%) 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%) 0 / 38 (0.00%)	subjects affected / exposed	0 / 22 (0.00%)	1 / 17 (5.88%)	1 / 38 (2.63%)
Aspartate aminotransferase increased subjects affected / exposed occurrences (all) Blood pressure increased subjects affected / exposed occurrences (all) 0 / 17 (0.00%) 1 / 38 (2.63%) 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%) 0 / 38 (0.00%) 0 / 38 (0.00%) 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%) 0 / 38 (0.00%) 0 / 38 (0.00%) 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%) 0 / 38 (0.00%)	occurrences (all)	0	1	1
increased subjects affected / exposed occurrences (all) 1 / 22 (4.55%) 0 / 17 (0.00%) 1 / 38 (2.63%) 1 Blood pressure increased subjects affected / exposed occurrences (all) 0 / 22 (0.00%) 0 / 17 (0.00%) 0 / 38 (0.00%) 0 Crystal urine present subjects affected / exposed occurrences (all) 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%)	Investigations			
occurrences (all) 1 Blood pressure increased subjects affected / exposed occurrences (all) 0 0 0 0 0 0 0 0 0 0 0 0 0				
Blood pressure increased subjects affected / exposed 0 / 22 (0.00%) 0 / 17 (0.00%) 0 / 38 (0.00%) 0 ccurrences (all) 0 0 0 Crystal urine present subjects affected / exposed 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%) 0 ccurrences (all) 1 0 0	subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	1 / 38 (2.63%)
subjects affected / exposed 0 / 22 (0.00%) 0 / 17 (0.00%) 0 / 38 (0.00%) occurrences (all) 0 0 0 Crystal urine present subjects affected / exposed occurrences (all) 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%) 0 0 0 0 0	occurrences (all)	1	0	1
subjects affected / exposed 0 / 22 (0.00%) 0 / 17 (0.00%) 0 / 38 (0.00%) occurrences (all) 0 0 0 Crystal urine present subjects affected / exposed occurrences (all) 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%) 0 0 0 0 0	Blood pressure increased			
occurrences (all) 0 0 0 Crystal urine present subjects affected / exposed 0 / 17 (0.00%) 0 / 38 (0.00%) 0 0	-	0 / 22 (0 00%)	0 / 17 (0 00%)	0 / 38 (0 00%)
Crystal urine present subjects affected / exposed 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%) occurrences (all) 1 0 0				
subjects affected / exposed 1 / 22 (4.55%) 0 / 17 (0.00%) 0 / 38 (0.00%) occurrences (all) 1 0 0	(2)	U	U	U
occurrences (all) 1 0	· · · · · · · · · · · · · · · · · · ·			
	subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
	occurrences (all)	1	0	0
Electrocardiogram QT prolonged	Flectrocardiogram OT prolonged			
subjects affected / exposed 0 / 22 (0.00%) 0 / 17 (0.00%) 1 / 38 (2.63%)		0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all) 0 0 1 0 1 1 1 1 1 1 1 1 1		-		
	,	U		1
Electrocardiogram T wave inversion	-			
subjects affected / exposed	subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all) 1 0 0	occurrences (all)	1	0	0
Electrocardiogram abnormal	Electrocardiogram abnormal			

subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
			-
Liver function test increased			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
Mean cell volume increased			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	1	0	0
Occult blood positive subjects affected / exposed	0 / 22 /0 000/	0 / 17 / 0 000/)	1 / 20 /2 (22/)
	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
Urobilinogen urine increased			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	1	0	0
Injury, poisoning and procedural			
complications			
Clavicle fracture			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
Skin abrasion			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
Synovial rupture			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	1	0	0
Urinary retention postoperative			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Cardiac disorders			
Atrial fibrillation			
subjects affected / exposed	0 / 22 (0.00%)	1 / 17 (5.88%)	0 / 38 (0.00%)
occurrences (all)	0	1	0
Bundle branch block right		, , , _ ,	0 / 00 / 00 / 00 / 00
subjects affected / exposed	0 / 22 (0.00%)	1 / 17 (5.88%)	0 / 38 (0.00%)
occurrences (all)	0	1	0
Right ventricular dysfunction			

subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	1	0	0
Ciava ta akusa udia			
Sinus tachycardia subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)		0	
occurrences (un)	0	0	1
Nervous system disorders			
Dizziness	0 (00 (0 000)	0 / 17 /0 000/	
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
Haemorrhage intracranial			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Headache subjects affected / exposed			
	2 / 22 (9.09%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	2	0	0
 Lethargy			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
Migraine			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Muscle spasticity			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
		_	_
Presyncope			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Tremor			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
	_	-	-
Blood and lymphatic system disorders			
Anaemia subjects affected / exposed	0 / 22 /0 000/ \	0 / 17 /0 000/	1 / 20 / 2 (20/)
	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
Microcytic anaemia			

subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Ear and labyrinth disorders			
Tinnitus subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
	Ŭ	Ü	Ç
Vertigo subjects affected / exposed	0 / 22 (0 00%)	0 / 17 (0 00%)	1 / 29 /2 620/.)
occurrences (all)	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%) 1
	Ů	Ü	1
Eye disorders Vision blurred			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Gastrointestinal disorders Abdominal discomfort			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Abdominal distancion			
Abdominal distension subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Abdominal pain subjects affected / exposed	0 / 22 /0 00%)	0 / 17 /0 000/)	0 / 30 /0 000/)
occurrences (all)	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (un)	0	0	0
Anal haemorrhage			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Constipation			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	1	0	0
Diarrhoea			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Faeces discoloured			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Nausea			

subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
Paraesthesia oral			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Vomiting			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Hepatobiliary disorders			
Hepatocellular injury			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Hypertransaminasaemia			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	1	0	1
Skin and subcutaneous tissue disorders			
Ecchymosis			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Night sweats			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	1	0	0
Rash			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
Renal and urinary disorders			
Dysuria			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
Haematuria			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
 Ketonuria			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	1	0	0
Proteinuria			

subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	1	0	0
Urine abnormality subjects affected / exposed occurrences (all)	1 / 22 (4.55%) 1	0 / 17 (0.00%) 0	0 / 38 (0.00%) 0
Musculoskeletal and connective tissue disorders			
Arthralgia			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	2 / 38 (5.26%)
occurrences (all)	1	0	2
Arthritis			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Back pain			

Abscess limb		1	
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	1	0	0
Anal abscess			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Appendicitis			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Bacteriuria			
subjects affected / exposed	1 / 22 (4.55%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	1	0	0
Infection			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	1 / 38 (2.63%)
occurrences (all)	0	0	1
Lung infection			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	2 / 38 (5.26%)
occurrences (all)	0	0	2
Oral fungal infection			
subjects affected / exposed	0 / 22 (0.00%)	1 / 17 (5.88%)	0 / 38 (0.00%)
occurrences (all)	0	1	0
Pneumonia			
subjects affected / exposed	0 / 22 (0.00%)	2 / 17 (11.76%)	0 / 38 (0.00%)
occurrences (all)	0	2	0
Respiratory tract infection			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
occurrences (all)	0	0	0
Urinary tract infection			
subjects affected / exposed	0 / 22 (0.00%)	0 / 17 (0.00%)	2 / 38 (5.26%)
occurrences (all)	0	0	2
Metabolism and nutrition disorders	1		
Folate deficiency			
subjects affected / exposed	0 / 22 (0.00%)	1 / 17 (5.88%)	0 / 38 (0.00%)
occurrences (all)	0	1	0
Hyperphosphataemia			

subjects affected / exposed occurrences (all)	0 / 22 (0.00%)	0 / 17 (0.00%)	0 / 38 (0.00%)
	0	0	0
Hypokalaemia subjects affected / exposed occurrences (all)	0 / 22 (0.00%)	1 / 17 (5.88%)	1 / 38 (2.63%)
	0	1	1

EU-CTR publication date: 17 August 2020

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
10 March 2016	Included information on assessment of the cardiac biomarkers troponin and NT-proBNP, added information regarding stopping the study due to excessive mortality rates or incidence of major bleeding, and included instruction on recording RV/LV ratio at baseline
09 January 2017	Updated details of administration of edoxaban; stated changes made for measuring total thrombus volume; clarified definitions for clinically relevant bleeding, highly effective contraception, and venous thromboembolism; updated procedures for subject enrollment; clarified inclusion and exclusion criteria, updated protocol for disposal of Investigational Product
26 April 2017	Updated inclusion and exclusion criteria, clarified the details for the supply of edoxaban, specified details of the administration of enoxaparin, and updated the documentation procedure for adverse events

EU-CTR publication date: 17 August 2020

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported