

**Clinical trial results:****A Phase 3, Multicenter, Randomized, Open-Label Study of Guadecitabine (SGI-110) versus Treatment Choice in Adults with Myelodysplastic Syndromes (MDS) or Chronic Myelomonocytic Leukemia (CMML) Previously Treated with Hypomethylating Agent Summary**

EudraCT number	2015-005257-12
Trial protocol	BE DE CZ ES PL DK SE
Global end of trial date	30 November 2020

**Results information**

Result version number	v2 (current)
This version publication date	08 July 2023
First version publication date	17 December 2021
Version creation reason	<ul style="list-style-type: none"><li>• Correction of full data set</li></ul> Updates to be made to align with CTG record based on PRS QC Comments

**Trial information****Trial identification**

Sponsor protocol code	SGI-110-07
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**Additional study identifiers**

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT02907359
WHO universal trial number (UTN)	-

Notes:

**Sponsors**

Sponsor organisation name	Astex Pharmaceuticals, Inc
Sponsor organisation address	4420 Rosewood Drive, Suite 200, Pleasanton, United States, CA 94588
Public contact	Astex Pharmaceuticals, Inc, Astex Pharmaceuticals, Inc, SGI-110-07@astx.com
Scientific contact	SGI-110-07 study mailbox, SGI-110-07 study mailbox, SGI-110-07@astx.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	30 November 2020
Is this the analysis of the primary completion data?	No
Global end of trial reached?	Yes
Global end of trial date	30 November 2020
Was the trial ended prematurely?	No

Notes:

## General information about the trial

Main objective of the trial:

The primary objective of the trial is to assess and compare overall survival (OS) between guadecitabine and treatment choice (TC) in adults with MDS or CMML previously treated with a hypomethylating agent (azacitidine or decitabine, or both).

Protection of trial subjects:

All study subjects were required to read and sign an Informed Consent Form.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	13 January 2017
Long term follow-up planned	Yes
Long term follow-up rationale	Safety, Efficacy
Long term follow-up duration	38 Months
Independent data monitoring committee (IDMC) involvement?	Yes

Notes:

## Population of trial subjects

### Subjects enrolled per country

Country: Number of subjects enrolled	Czechia: 15
Country: Number of subjects enrolled	Denmark: 14
Country: Number of subjects enrolled	France: 40
Country: Number of subjects enrolled	Germany: 7
Country: Number of subjects enrolled	Italy: 31
Country: Number of subjects enrolled	Japan: 71
Country: Number of subjects enrolled	Poland: 14
Country: Number of subjects enrolled	Korea, Republic of: 19
Country: Number of subjects enrolled	Spain: 32
Country: Number of subjects enrolled	United Kingdom: 11
Country: Number of subjects enrolled	Canada: 25
Country: Number of subjects enrolled	United States: 125
Country: Number of subjects enrolled	Belgium: 13
Worldwide total number of subjects	417
EEA total number of subjects	166

Notes:

<b>Subjects enrolled per age group</b>	
In utero	0
Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	0
Children (2-11 years)	0
Adolescents (12-17 years)	0
Adults (18-64 years)	34
From 65 to 84 years	370
85 years and over	13

## Subject disposition

### Recruitment

Recruitment details:

Subjects took part in the study at 101 investigative sites in the United States, Canada, Spain, Italy, France, Germany, Czech Republic, Denmark, Poland, Belgium, Sweden, United Kingdom, Japan, South Korea from 13 January 2017 to 30 November 2020.

### Pre-assignment

Screening details:

A total of 417 subjects were randomised (277 in Guadecitabine arm group and 140 in Treatment Choice arm group) and 392 received treatment. Of 417 subjects, 48 completed the study.

### Period 1

Period 1 title	Overall Study (overall period)
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Not blinded

### Arms

Are arms mutually exclusive?	Yes
<b>Arm title</b>	Guadecitabine

Arm description:

Subjects received Guadecitabine 60 milligrams per square meter (mg/m<sup>2</sup>), subcutaneously (SC), on Days 1-5 of each 28-day cycle for at least 6 cycles in the absence of unacceptable toxicity or disease progression requiring alternative therapy. Subjects received Guadecitabine treatment beyond 6 cycles as long as the subject continued to benefit based on investigator judgment and subject response and tolerability (or up to a maximum of 36 cycles).

Arm type	Experimental
Investigational medicinal product name	Guadecitabine
Investigational medicinal product code	SGI-110
Other name	
Pharmaceutical forms	Solution for injection
Routes of administration	Subcutaneous use

Dosage and administration details:

Guadecitabine 60 mg/m<sup>2</sup> was administered as subcutaneous injection on Days 1-5 of each 28-day cycle.

<b>Arm title</b>	Treatment Choice
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Arm description:

Subjects received 1/3 treatment choice options: 1. Low dose cytarabine (LDAC) 20mg/m<sup>2</sup> SC or intravenous (IV) once daily for 14 days (28 day cycles) for at least 4 cycles in absence of disease progression/unacceptable toxicity. Subjects who were responding/had stable disease were to continue treatment as per standard institutional practice. 2. Standard Intensive Chemotherapy (IC) of 7+3 regimen: Cytarabine 100-200mg/m<sup>2</sup>/day given as continuous infusion for 7 days, anthracycline (daunorubicin (45-60mg)/idarubicin (9-12mg)/mitoxantrone (8-12mg)/m<sup>2</sup>) by IV infusion for 3 days (28 day cycles). 3. Best Supportive Care (BSC) as needed during treatment included, but was not limited to, blood transfusions (Red blood cells [RBCs] or platelets), growth factors: erythropoiesis stimulating agents, granulocyte stimulating factors, iron chelating therapy, broad-spectrum antibiotics and/or antifungals. Duration for treatment choice: as per locally approved prescribing information and institutional standard practice/up to maximum 30 cycles

Arm type	Active comparator
Investigational medicinal product name	Cytarabine
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection
Routes of administration	Intravenous use, Subcutaneous use

Dosage and administration details:

Low dose cytarabine (LDAC) 20 mg/m<sup>2</sup> SC or IV once daily for 14 days of each 28-day cycles for at least 4 cycles; or cytarabine 100-200 mg/m<sup>2</sup>/day given as continuous infusion for 7 days as part of Standard Intensive Chemotherapy (IC) of a 7+3 regimen.

Investigational medicinal product name	Mitoxantrone
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection/infusion
Routes of administration	Intravenous use

Dosage and administration details:

Mitoxantrone was given 8-12 mg/m<sup>2</sup> by intravenous infusion for 3 days as part of Standard Intensive Chemotherapy (IC) of a 7+3 regimen.

Investigational medicinal product name	Idarubicin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection/infusion
Routes of administration	Intravenous use

Dosage and administration details:

Idarubicin was given 9-12 mg/m<sup>2</sup> by intravenous infusion for 3 days as part of Standard Intensive Chemotherapy (IC) of a 7+3 regimen.

Investigational medicinal product name	Daunorubicin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Injection/infusion
Routes of administration	Intravenous use

Dosage and administration details:

Daunorubicin was given 45-60 mg/m<sup>2</sup> by intravenous infusion for 3 days as part of Standard Intensive Chemotherapy (IC) of a 7+3 regimen.

Number of subjects in period 1	Guadecitabine	Treatment Choice
Started	277	140
Safety Population	270	122
Completed	36	12
Not completed	241	128
Death	234	117
Withdrawal by Subject	6	11
Lost to follow-up	1	-

## Baseline characteristics

### Reporting groups

Reporting group title	Guadecitabine
Reporting group description:	
Subjects received Guadecitabine 60 milligrams per square meter (mg/m <sup>2</sup> ), subcutaneously (SC), on Days 1-5 of each 28-day cycle for at least 6 cycles in the absence of unacceptable toxicity or disease progression requiring alternative therapy. Subjects received Guadecitabine treatment beyond 6 cycles as long as the subject continued to benefit based on investigator judgment and subject response and tolerability (or up to a maximum of 36 cycles).	
Reporting group title	Treatment Choice
Reporting group description:	
Subjects received 1/3 treatment choice options:1.Low dose cytarabine(LDAC)20mg/m <sup>2</sup> SC or intravenous(IV)once daily for 14 days(28day cycles)for at least 4 cycles in absence of disease progression/unacceptable toxicity.Subjects who were responding/had stable disease were to continue treatment as per standard&institutional practice.2.Standard Intensive Chemotherapy(IC)of 7+3 regimen:Cytarabine 100-200mg/m <sup>2</sup> /day given as continuous infusion for 7 days, anthracycline(daunorubicin(45-60mg)/idarubicin(9-12mg)/mitoxantrone(8-12mg)/m <sup>2</sup> )by IV infusion for 3 days(28day cycles).3.Best Supportive Care(BSC)as needed during treatment included,but was not limited to,blood transfusions(Red blood cells[RBCs]or platelets),growth factors:erythropoiesis stimulating agents,granulocyte stimulating factors,iron chelating therapy,broad-spectrum antibiotics and/or antifungals.Duration for treatment choice:as per locally approved prescribing information&institutional standard practice/up to maximum 30 cycles	

Reporting group values	Guadecitabine	Treatment Choice	Total
Number of subjects	277	140	417
Age Categorical			
Units: Subjects			
Age continuous			
Units: years			
arithmetic mean	73.5	73.7	
standard deviation	± 7.0	± 6.1	-
Gender categorical			
Units: Subjects			
Male	194	96	290
Female	83	44	127
Ethnicity			
Units: Subjects			
Hispanic or Latino	24	7	31
Not Hispanic or Latino	225	117	342
Not Reported	28	16	44
Race			
Units: Subjects			
White	179	86	265
Black or African American	5	3	8
Asian	64	33	97
American Indian or Alaska Native	0	1	1
Native Hawaiian or Other Pacific Islander	0	1	1
Not Reported	29	16	45

## End points

### End points reporting groups

Reporting group title	Guadecitabine
Reporting group description:	
Subjects received Guadecitabine 60 milligrams per square meter (mg/m <sup>2</sup> ), subcutaneously (SC), on Days 1-5 of each 28-day cycle for at least 6 cycles in the absence of unacceptable toxicity or disease progression requiring alternative therapy. Subjects received Guadecitabine treatment beyond 6 cycles as long as the subject continued to benefit based on investigator judgment and subject response and tolerability (or up to a maximum of 36 cycles).	
Reporting group title	Treatment Choice
Reporting group description:	
Subjects received 1/3 treatment choice options:1.Low dose cytarabine(LDAC)20mg/m <sup>2</sup> SC or intravenous(IV)once daily for 14 days(28day cycles)for at least 4 cycles in absence of disease progression/unacceptable toxicity.Subjects who were responding/had stable disease were to continue treatment as per standard&institutional practice.2.Standard Intensive Chemotherapy(IC)of 7+3 regimen:Cytarabine 100-200mg/m <sup>2</sup> /day given as continuous infusion for 7 days, anthracycline(daunorubicin(45-60mg)/idarubicin(9-12mg)/mitoxantrone(8-12mg))/m <sup>2</sup> )by IV infusion for 3 days(28day cycles).3.Best Supportive Care(BSC)as needed during treatment included,but was not limited to,blood transfusions(Red blood cells[RBCs]or platelets),growth factors:erythropoiesis stimulating agents,granulocyte stimulating factors,iron chelating therapy,broad-spectrum antibiotics and/or antifungals.Duration for treatment choice:as per locally approved prescribing information&institutional standard practice/up to maximum 30 cycles	

### Primary: Overall Survival (OS)

End point title	Overall Survival (OS)
End point description:	
OS was defined as the number of days from the day the subject was randomized to the date of death due to any cause. Survival time was censored on the last date the subject is known alive with no event of death. OS time will be estimated using the Kaplan-Meier method. The Efficacy Analysis Set included all subjects randomly assigned to the study treatment.	
End point type	Primary
End point timeframe:	
From randomisation up to death (up to approximately 38.6 months)	

End point values	Guadecitabine	Treatment Choice		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	277	140		
Units: days				
median (confidence interval 95%)	277.0 (243.0 to 313.0)	252.0 (200.0 to 325.0)		

### Statistical analyses

Statistical analysis title	Guadecitabine vs Treatment Choice
Statistical analysis description:	
OS between guadecitabine vs treatment choice using stratified log-rank test. Due to pre-specified hierarchical testing plan, other endpoints were not evaluated for statistical significance.	

Comparison groups	Guadecitabine v Treatment Choice
Number of subjects included in analysis	417
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.6063 <sup>[1]</sup>
Method	Stratified Log-rank test
Parameter estimate	Hazard ratio (HR)
Point estimate	0.94
Confidence interval	
level	95 %
sides	2-sided
lower limit	0.74
upper limit	1.19

Notes:

[1] - The stratification factors include disease category (MDS vs CMML), baseline BM blasts (>10% vs ≤10%), TC option (LDAC vs IC vs BSC), and study center region (North America vs Rest of the world {ROW}).

### Secondary: Percentage of Subjects with Transfusion Independence for Any 8 Consecutive Weeks

End point title	Percentage of Subjects with Transfusion Independence for Any 8 Consecutive Weeks
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End point description:

Transfusion independence rate was calculated as the number of subjects with neither RBC nor platelet transfusion for any period of 8 weeks after the initiation of treatment (or cycle 1 day 1 { C1D1} visit date for subjects randomized to BSC or randomization date for subjects not treated) and up to treatment discontinuation (or 180 days for subjects discontinuing the treatment within 6 months), while maintaining haemoglobin (Hgb) ≥8 gram per decilitre (g/dL) and platelets ≥20×10<sup>9</sup>/litre (L) divided by the total number of subjects included in the efficacy analysis. RBC or Platelet transfusion independence rate was defined similarly as above. Percentage of subjects are rounded off to the single decimal point. The Efficacy Analysis Set included all subjects randomly assigned to the study treatment.

End point type	Secondary
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End point timeframe:

Up to approximately 46.6 months

End point values	Guadecitabine	Treatment Choice		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	277	140		
Units: percentage of subjects				
number (not applicable)				
Transfusion Independence Rate (8 weeks)	15.9	15.7		
Platelet Transfusion Independence Rate	32.1	37.9		
RBC Transfusion Independence Rate	22.4	20.0		

### Statistical analyses

No statistical analyses for this end point



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**Secondary: Percentage of Subjects With Marrow Complete Response (mCR) Along With Transfusion Independence Rate**

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End point title	Percentage of Subjects With Marrow Complete Response (mCR) Along With Transfusion Independence Rate
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End point description:

mCR was defined as per 2006 Myelodysplastic Syndromes International Council for Harmonisation (MDS IWG) criteria as reduction of bone marrow (BM) blasts to  $\leq 5\%$ , decrease by 50% or more with or without normalization of peripheral counts. Transfusion independence rate = number of subjects with neither RBC nor platelet transfusion for any period of 8 weeks after the initiation of treatment (or C1D1 visit date for subjects randomized to BSC or randomization date for subjects not treated) and up to treatment discontinuation (or 180 days for subjects discontinuing treatment within 6 months) while maintaining Hgb  $\geq 8$  g/dL and platelets  $\geq 20 \times 10^9/L$  divided by the total number of subjects included in the efficacy analysis. The percentage of subjects who achieved mCR and transfusion independence simultaneously in the same period were calculated for each group. Percentage of subjects are rounded off to the single decimal point. The Efficacy Analysis Set included all subjects randomly assigned to treatment.

End point type	Secondary
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End point timeframe:

Up to approximately 46.6 months

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End point values	Guadecitabine	Treatment Choice		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	277	140		
Units: percentage of subjects				
number (not applicable)	5.8	2.9		

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**Statistical analyses**

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No statistical analyses for this end point

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**Secondary: Leukemia-free Survival**

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End point title	Leukemia-free Survival
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End point description:

Leukemia-free survival was defined as the number of days from randomisation to the earliest date when subjects have BM or peripheral blood (PB) blasts  $\geq 20\%$ , conversion to acute myeloid leukemia (AML) or death of any cause. Subjects with no events in leukemia-free survival were censored on the last date of BM or PB blasts assessment, whichever is later. Survival time will be estimated using the Kaplan-Meier method. The Efficacy Analysis Set included all subjects randomly assigned to study treatment.

End point type	Secondary
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End point timeframe:

From randomisation up to approximately 46.6 months

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End point values	Guadecitabine	Treatment Choice		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	277	140		
Units: days				
median (confidence interval 95%)	173.0 (135.0 to 206.0)	181.0 (125.0 to 213.0)		

## Statistical analyses

No statistical analyses for this end point

### Secondary: Survival Rate at 1 Year After Randomisation

End point title	Survival Rate at 1 Year After Randomisation
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End point description:

One year survival rate was defined as the percentage of subjects that survived at the end of the first year from randomisation. Subjects who did not have death in record were censored on the last date known to be alive. Percentage of subjects are rounded off to the nearest whole number. The Efficacy Analysis Set included all subjects randomly assigned to study treatment.

End point type	Secondary
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End point timeframe:

From randomisation up to 12 months

End point values	Guadecitabine	Treatment Choice		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	277	140		
Units: percentage of subjects				
number (confidence interval 95%)	39 (34 to 45)	39 (30 to 47)		

## Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Days Alive and Out of The Hospital (NDAOH)

End point title	Number of Days Alive and Out of The Hospital (NDAOH)
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End point description:

The date of each hospital admission and discharge was collected for each subject for up to 6 months, unless the subject died or withdrew consent prior to that time. Duration of each hospital stay in days was calculated as date of discharge minus date of admission. The NDAOH within first 6 month period was calculated as: NDAOH 6M=180 - total duration of all hospital stays within 180 days from the first treatment - number of death days before Day 180. For subjects who were lost to follow-up within 6 months, the NDAOH was calculated conservatively assuming that the subject would have died the day after the last contact day. The Efficacy Analysis Set included all subjects randomly assigned to study treatment.

End point type	Secondary
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End point timeframe:

Up to 6 months

End point values	Guadecitabine	Treatment Choice		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	277	140		
Units: days				
median (full range (min-max))	144.0 (0 to 180)	149.5 (0 to 180)		

## Statistical analyses

No statistical analyses for this end point

## Secondary: Disease Response (DR)

End point title	Disease Response (DR)
End point description: DR:CR,PR,mCR,HI (HI-E,HI-N,HI-P)based on IWG 2006 criteria.CR:BM:≤5%myeloblasts,Peripheral blood:Hgb≥11g/dL,Platelets(PLTs)≥100x10 <sup>9</sup> /L,Neutrophils≥1.0x10 <sup>9</sup> /L,Blasts0%.PR:All CR criteria if abnormal before treatment except BM blasts decreased≥50%over pretreatment but still>5%,Cellularity,morphology not relevant.HI responses:1)HI-E:Hgb increase≥1.5g/dL,Relevant reduction of RBC units transfusions by absolute≥4RBC transfusions/8 week(wk)compared with pretreatment transfusion number previous 8wk.Only RBC transfusions given for Hgb≤9.0g/dL.2)HI-P:Absolute increase≥30x10 <sup>9</sup> /L starting>20x10 <sup>9</sup> /L PLTs;Increase from<20x10 <sup>9</sup> /L to>20x10 <sup>9</sup> /L and by≥100%.3)HI-N:≥100% increase,absolute increase>0.5x10 <sup>9</sup> /L.Efficacy Analysis Set included all subjects randomly assigned to study treatment.Subjects who had multiple responses of HI(HI-E, HI-N and HI-P)were counted only once while calculating the total HI value in both treatment groups.Percentage of subjects are rounded off to nearest single decimal point.	
End point type	Secondary
End point timeframe: Up to approximately 46.6 months	

End point values	Guadecitabine	Treatment Choice		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	277	140		
Units: percentage of subjects				
number (confidence interval 95%)				
Complete Response [CR]	1.4 (0.0 to 2.8)	0.7 (0.0 to 2.1)		
Partial Response [PR]	0 (0 to 0)	0 (0 to 0)		
Marrow Complete Response [mCR]	17.3 (12.9 to 21.8)	8.6 (3.9 to 13.2)		
Hematological Improvement [HI]	3.2 (1.2 to 5.3)	5.7 (1.9 to 9.6)		
HI with Erythroid (HI-E)	1.1 (0.0 to 2.2)	2.1 (0.0 to 4.5)		
HI with Platelet (HI-P)	1.8 (0.2 to 3.3)	2.1 (0.0 to 4.5)		
HI with Neutrophil (HI-N)	0.7 (0.0 to 1.7)	2.1 (0.0 to 4.5)		

## Statistical analyses

No statistical analyses for this end point

### Secondary: Duration of Complete Response (CR)

End point title	Duration of Complete Response (CR)
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End point description:

Duration of complete response (in number of days) was calculated from the first time CR was observed to date of earliest of following three events: 1) relapse/disease progression, 2) start of alternative therapy (except Hematopoietic Cell Transplant [HCT]) or 3) death. In absence of any event, duration of CR was censored at the last available time point (BM assessment, PB assessment, or safety/long-term follow-up visit) at which an event was not observed. Duration of complete response was analysed using Kaplan-Meier method for subjects who achieved CR during the study. CR: BM:  $\leq 5\%$  myeloblasts (all cell lines normal maturation), Peripheral blood: Hgb  $\geq 11$  g/dL, PLTs  $\geq 100 \times 10^9$ /L, Neutrophils  $\geq 1.0 \times 10^9$ /L, Blasts 0%. Efficacy Analysis Set included all subjects randomly assigned to the study treatment. Overall number of subjects analyzed are the number of subjects with CR (responders) only. Here, 99999 indicates that upper and the lower limit of 95% confidence interval was not estimable for a single subject.

End point type	Secondary
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End point timeframe:

Up to approximately 46.6 months

End point values	Guadecitabine	Treatment Choice		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	4	1		
Units: days				
median (confidence interval 95%)	198 (112.0 to 266.0)	406 (-99999 to 99999)		

## Statistical analyses

No statistical analyses for this end point

### Secondary: Time to First Response, Complete Response (CR) and Best Response

End point title	Time to First Response, Complete Response (CR) and Best Response
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End point description:

Time to first response was defined as the time, in days, from the date of randomisation to the first date when any response was achieved. Time to CR was calculated as the time, in days, from the date of randomisation to the first date when CR was achieved. Time to best response was similarly defined as the time, in days, from the date of randomisation to the first date when a subject's best response, in the order of CR, PR, mCR or HI was achieved. Efficacy Analysis Set included all subjects randomly assigned to study treatment. n = number of subjects with response. Overall number of subjects analyzed are the number of subjects with data available for analysis.

End point type	Secondary
End point timeframe:	
From study Day 1 to the earliest date that a response was first documented (Up to approximately 46.6 months)	

End point values	Guadecitabine	Treatment Choice		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	277	140		
Units: days				
median (full range (min-max))				
Time to First Response (n=61, 21)	63.0 (28 to 323)	67.0 (21 to 295)		
Time to CR (n=4, 1)	91.0 (56 to 106)	266 (266 to 266)		
Time to Best Response (n=61, 21)	64 (28 to 469)	77 (23 to 295)		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Red Blood Cell (RBC) and Platelet Transfusions

End point title	Number of Red Blood Cell (RBC) and Platelet Transfusions
End point description:	
The total number of RBCs transfused or, separately, the total number of platelets transfused up to the 6-month time point for each subject was counted from the date of randomisation to Day 180, the date of last contact, or date of death, whichever occurred earlier. One RBC or platelet transfusion was defined as one unit, and a single bag of RBCs or platelets was considered one unit. The mean total number of RBC or platelet units transfused per subject is presented. The Efficacy Analysis Set included all subjects randomly assigned to study treatment.	
End point type	Secondary
End point timeframe:	
Up to 6 months	

End point values	Guadecitabine	Treatment Choice		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	277	140		
Units: units				
arithmetic mean (standard deviation)				
RBC Transfusions	18.9 (± 13.94)	15.0 (± 13.53)		
Platelet Transfusions	16.8 (± 18.64)	12.1 (± 20.15)		

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change From Baseline in Health-related Quality of Life (QOL) By EuroQol 5-level 5-dimension (EQ-5D-5L) Summary Index

End point title	Change From Baseline in Health-related Quality of Life (QOL) By EuroQol 5-level 5-dimension (EQ-5D-5L) Summary Index
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End point description:

EQ-5D-5L is self-reported health status questionnaire that has 6 questions and 2 components: 1) descriptive system 5-item health state profile (mobility, self-care, usual activities, pain/discomfort, anxiety/depression) to obtain Index Utility Score, 2) visual analogue scale that measures health state. Each dimension comprises 5 levels with scores (1=no problems; 5=extreme problems). Health status is converted to index value using country-specific weighted scoring algorithm for England. Summary index value for England ranges from -0.281 (worst) to 1 (best). Increase in EQ-5D-5L total score indicates improvement. Efficacy Analysis Set included all subjects randomly assigned to study treatment. Overall number of subjects analyzed = number of subjects with data available for analysis. n = number of subjects with data available for analysis at given timepoint. As pre-specified in Statistical Analysis Plan (SAP), analysis included only data collected for each subject during first 6 months

End point type	Secondary
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End point timeframe:

Baseline to Month 6

End point values	Guadecitabine	Treatment Choice		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	277	140		
Units: score on a scale				
arithmetic mean (standard deviation)				
Baseline (n=266, 119)	0.8414 ( $\pm$ 0.1596)	0.8404 ( $\pm$ 0.1587)		
Change from Baseline at Month 6 (n=103, 40)	-0.0386 ( $\pm$ 0.1466)	-0.0149 ( $\pm$ 0.1266)		

## Statistical analyses

No statistical analyses for this end point

### Secondary: Change From Baseline in Health-related QOL: EuroQOL Visual Analogue Scale (EQ-VAS) Score

End point title	Change From Baseline in Health-related QOL: EuroQOL Visual Analogue Scale (EQ-VAS) Score
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End point description:

The EQ-5D-5L is a self-reported health status questionnaire that consists of six questions used to calculate a health utility score for use in health economic analysis. The second component, EQ VAS self-rating records the respondent's own assessment of his/her overall health status at time of completion, on a scale of 0 (worst health you can imagine) to 100 (best health you can imagine). The Efficacy Analysis Set included all subjects randomly assigned to the study treatment. Overall number of subjects analyzed are the number of subjects with data available for analysis. n = the number of subjects with data available for analysis at the given timepoint. As pre-specified in the SAP, the analysis included only the data collected for each subject during the first 6 months of study participation.

End point type	Secondary
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End point timeframe:

Baseline to Month 6

End point values	Guadecitabine	Treatment Choice		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	277	140		
Units: score on a scale				
arithmetic mean (standard deviation)				
Baseline (n=266, 119)	71.24 (± 18.33)	70.70 (± 18.32)		
Change from Baseline at Month 6 (n=103, 40)	-1.52 (± 16.39)	-2.43 (± 18.04)		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Subjects with Treatment-emergent Adverse Events (AEs) and Serious Adverse Events (SAEs)

End point title	Number of Subjects with Treatment-emergent Adverse Events (AEs) and Serious Adverse Events (SAEs)
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End point description:

An AE is defined as any untoward medical occurrence in a clinical investigation subjects administered a drug; it does not necessarily have to have a causal relationship with this treatment. An SAE is defined any untoward medical occurrence that at any dose: results in death; is life-threatening; requires inpatient hospitalization; results in persistent or significant disability; is congenital anomaly; is suspected transmission of any infectious agent via a medicinal product or is medically important. Treatment emergent AEs which are those with onset date on or after the date of the first dose of study drug on C1D1 until 30 days after the last dose of study treatment, or the start of an alternative anticancer treatment, whichever occurs first. Safety Analysis Set included all subjects randomly assigned to study treatment who received any amount of study treatment or any component of a multi-dose study treatment regimen.

End point type	Secondary
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End point timeframe:

From first dose through end of study (up to approximately 46.6 months)

End point values	Guadecitabine	Treatment Choice		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	270	122		
Units: subjects				
number (not applicable)				
TEAE	268	113		
SAE	216	65		

## Statistical analyses

No statistical analyses for this end point

## Secondary: 30 and 60-day All-cause Mortality

End point title	30 and 60-day All-cause Mortality
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End point description:

Number of deaths, regardless of cause, within 30 or 60 days from the first study dose divided by the total number of subjects included in the safety analysis set. Subjects who died within 30 days were also included in the 60-day mortality calculations. Safety Analysis Set included all subjects randomly assigned to study treatment who received any amount of study treatment or any component of a multi-dose study treatment regimen.

End point type	Secondary
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End point timeframe:

From first dose until 60 days after first dose of study drug

End point values	Guadecitabine	Treatment Choice		
Subject group type	Reporting group	Reporting group		
Number of subjects analysed	270	122		
Units: subjects				
number (not applicable)				
Within 30 Days	16	6		
Within 60 Days	35	13		

## Statistical analyses

No statistical analyses for this end point



## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

From first dose through end of study (up to approximately 46.6 months)

Adverse event reporting additional description:

Safety Analysis Set included all subjects randomly assigned to study treatment who received any amount of study treatment or any component of a multi-dose study treatment regimen. Total number of deaths (all causes): is presented for the safety population (participant flow shows number of deaths with primary reason for all randomised subjects).

Assessment type	Systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	21.0
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### Reporting groups

Reporting group title	Guadecitabine
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Reporting group description:

Subjects received Guadecitabine 60 mg/m<sup>2</sup>, SC, on Days 1-5 of each 28-day cycle for at least 6 cycles in the absence of unacceptable toxicity or disease progression requiring alternative therapy. Subjects received Guadecitabine treatment beyond 6 cycles as long as the subject continued to benefit based on investigator judgment and subject response and tolerability (or up to a maximum of 36 cycles).

Reporting group title	Treatment Choice
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Reporting group description:

Subjects received one of the three treatment choice options:

1. LDAC 20 mg/m<sup>2</sup> SC/IV once daily for 14 days of each 28-day cycles for at least 4 cycles in absence of disease progression or unacceptable toxicity. Subjects who were responding or had stable disease were to continue treatment as per standard institutional practice.
2. Standard IC of a 7+3 regimen: Cytarabine 100-200 mg/m<sup>2</sup>/day given as continuous infusion for 7 days and anthracycline (daunorubicin (45-60 mg)/idarubicin (9-12 mg)/mitoxantrone (8-12 mg)/m<sup>2</sup>) by IV infusion for 3 days of each 28-day cycles.
3. BSC as needed during the treatment included, but was not limited to, blood transfusions (RBCs or platelets), growth factors including erythropoiesis stimulating agents, granulocyte stimulating factors, iron chelating therapy, and broad-spectrum antibiotics and/or antifungals.

Duration for treatment choice was as per locally approved prescribing information and institutional standard practice or up to a maximum 30 cycles.

Serious adverse events	Guadecitabine	Treatment Choice	
Total subjects affected by serious adverse events			
subjects affected / exposed	216 / 270 (80.00%)	65 / 122 (53.28%)	
number of deaths (all causes)	231	109	
number of deaths resulting from adverse events	58	20	
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Metastases to central nervous system			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Transitional cell carcinoma			

subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Central nervous system leukaemia			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Tumour associated fever			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Vascular disorders			
Aortic aneurysm			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Deep vein thrombosis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Haematoma			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hypertension			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hypotension			
subjects affected / exposed	1 / 270 (0.37%)	2 / 122 (1.64%)	
occurrences causally related to treatment / all	0 / 1	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 1	
Internal haemorrhage			

subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Shock haemorrhagic			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
General disorders and administration site conditions			
Pyrexia			
subjects affected / exposed	7 / 270 (2.59%)	2 / 122 (1.64%)	
occurrences causally related to treatment / all	1 / 8	1 / 3	
deaths causally related to treatment / all	0 / 0	0 / 0	
General physical health deterioration			
subjects affected / exposed	3 / 270 (1.11%)	3 / 122 (2.46%)	
occurrences causally related to treatment / all	0 / 3	0 / 3	
deaths causally related to treatment / all	0 / 1	0 / 0	
Multiple organ dysfunction syndrome			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 2	0 / 0	
deaths causally related to treatment / all	1 / 1	0 / 0	
Chest pain			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Death			
subjects affected / exposed	1 / 270 (0.37%)	2 / 122 (1.64%)	
occurrences causally related to treatment / all	1 / 1	0 / 2	
deaths causally related to treatment / all	1 / 1	0 / 2	
Malaise			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Non-cardiac chest pain			

subjects affected / exposed	1 / 270 (0.37%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	1 / 1	0 / 4	
deaths causally related to treatment / all	0 / 0	0 / 0	
Systemic inflammatory response syndrome			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Asthenia			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Immune system disorders			
Anaphylactic reaction			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Reproductive system and breast disorders			
Prostatitis			
subjects affected / exposed <sup>[1]</sup>	1 / 194 (0.52%)	0 / 96 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Respiratory, thoracic and mediastinal disorders			
Epistaxis			
subjects affected / exposed	4 / 270 (1.48%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	1 / 4	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pulmonary embolism			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Acute respiratory failure			

subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Aspiration			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Haemoptysis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Oropharyngeal pain			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pleural effusion			
subjects affected / exposed	1 / 270 (0.37%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pleuritic pain			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pneumonia aspiration			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Respiratory failure			
subjects affected / exposed	1 / 270 (0.37%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Bronchopneumopathy			

subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Choking			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 1	
Haemothorax			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pulmonary mass			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Psychiatric disorders			
Confusional state			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Organic brain syndrome			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Investigations			
C-reactive protein increased			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
General physical condition abnormal			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Troponin increased			

subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Injury, poisoning and procedural complications			
Fall			
subjects affected / exposed	2 / 270 (0.74%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	1 / 2	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Subarachnoid haemorrhage			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Acute haemolytic transfusion reaction			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Femur fracture			
subjects affected / exposed	1 / 270 (0.37%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hip fracture			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Joint dislocation			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Ligament sprain			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Post procedural haemorrhage			

subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Spinal compression fracture			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Subdural haematoma			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Subdural haemorrhage			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Toxicity to various agents			
subjects affected / exposed	1 / 270 (0.37%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Lumbar vertebral fracture			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Rib fracture			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Transfusion reaction			
subjects affected / exposed	0 / 270 (0.00%)	2 / 122 (1.64%)	
occurrences causally related to treatment / all	0 / 0	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Congenital, familial and genetic disorders			
Gastrointestinal arteriovenous malformation			



subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 3	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cardiac disorders			
Atrial fibrillation			
subjects affected / exposed	6 / 270 (2.22%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	2 / 8	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cardiac failure			
subjects affected / exposed	4 / 270 (1.48%)	2 / 122 (1.64%)	
occurrences causally related to treatment / all	0 / 4	0 / 2	
deaths causally related to treatment / all	0 / 1	0 / 0	
Cardiac failure congestive			
subjects affected / exposed	3 / 270 (1.11%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 4	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Acute myocardial infarction			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Angina pectoris			
subjects affected / exposed	2 / 270 (0.74%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 3	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cardiac arrest			
subjects affected / exposed	1 / 270 (0.37%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 1	0 / 1	
Myocardial ischaemia			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Ventricular extrasystoles			

subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Nervous system disorders			
Haemorrhage intracranial			
subjects affected / exposed	2 / 270 (0.74%)	2 / 122 (1.64%)	
occurrences causally related to treatment / all	0 / 2	0 / 2	
deaths causally related to treatment / all	0 / 1	0 / 0	
Central nervous system haemorrhage			
subjects affected / exposed	1 / 270 (0.37%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 1	1 / 1	
deaths causally related to treatment / all	0 / 1	1 / 1	
Cerebral haemorrhage			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Encephalopathy			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Intracranial haematoma			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Loss of consciousness			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cerebral infarction			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cerebrovascular accident			

subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 1	
Dizziness			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Sciatica			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Syncope			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Blood and lymphatic system disorders			
Febrile neutropenia			
subjects affected / exposed	80 / 270 (29.63%)	19 / 122 (15.57%)	
occurrences causally related to treatment / all	72 / 141	11 / 26	
deaths causally related to treatment / all	1 / 4	0 / 1	
Thrombocytopenia			
subjects affected / exposed	8 / 270 (2.96%)	2 / 122 (1.64%)	
occurrences causally related to treatment / all	4 / 10	2 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Anaemia			
subjects affected / exposed	7 / 270 (2.59%)	2 / 122 (1.64%)	
occurrences causally related to treatment / all	4 / 8	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Febrile bone marrow aplasia			
subjects affected / exposed	3 / 270 (1.11%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	1 / 3	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Neutropenia			

subjects affected / exposed	3 / 270 (1.11%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	3 / 3	1 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Leukocytosis			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Leukostasis syndrome			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pancytopenia			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 2	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Lymphadenitis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Lymphadenopathy			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Splenic infarction			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Thrombocytopenic purpura			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Agranulocytosis			

subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Bone marrow failure			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Disseminated intravascular coagulation			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Ear and labyrinth disorders			
Deafness			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gastrointestinal disorders			
Gastrointestinal haemorrhage			
subjects affected / exposed	3 / 270 (1.11%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	3 / 4	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 1	
Lower gastrointestinal haemorrhage			
subjects affected / exposed	3 / 270 (1.11%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 4	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Colitis			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 3	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Ascites			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	

Chronic gastritis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Diarrhoea			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Enterocolitis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gastric haemorrhage			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Enterovesical fistula			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Gastrointestinal vascular malformation haemorrhagic			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Intestinal haemorrhage			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Mouth haemorrhage			
subjects affected / exposed	1 / 270 (0.37%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	1 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Nausea			

subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pancreatitis acute			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Small intestinal haemorrhage			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Upper gastrointestinal haemorrhage			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Abdominal pain			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Aphthous ulcer			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Intestinal obstruction			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Megacolon			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 1	
Melaena			

subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Rectal haemorrhage			
subjects affected / exposed	0 / 270 (0.00%)	2 / 122 (1.64%)	
occurrences causally related to treatment / all	0 / 0	1 / 2	
deaths causally related to treatment / all	0 / 0	1 / 1	
Retroperitoneal haematoma			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hepatobiliary disorders			
Cholangitis			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Bile duct stone			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cholecystitis acute			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Skin and subcutaneous tissue disorders			
Acute febrile neutrophilic dermatosis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Renal and urinary disorders			
Haematuria			
subjects affected / exposed	3 / 270 (1.11%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	1 / 3	1 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	



Acute kidney injury			
subjects affected / exposed	1 / 270 (0.37%)	2 / 122 (1.64%)	
occurrences causally related to treatment / all	0 / 1	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Nephrolithiasis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Renal impairment			
subjects affected / exposed	1 / 270 (0.37%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	1 / 1	1 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Urinary retention			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Urinary tract pain			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Musculoskeletal and connective tissue disorders			
Back pain			
subjects affected / exposed	3 / 270 (1.11%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 3	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Fistula inflammation			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Joint effusion			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	

Musculoskeletal chest pain			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Synovial cyst			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Arthritis			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Bone pain			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Osteoporotic fracture			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pain in extremity			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Rhabdomyolysis			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	1 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Infections and infestations			
Pneumonia			
subjects affected / exposed	72 / 270 (26.67%)	17 / 122 (13.93%)	
occurrences causally related to treatment / all	51 / 97	2 / 21	
deaths causally related to treatment / all	7 / 15	0 / 5	
Sepsis			

subjects affected / exposed	26 / 270 (9.63%)	4 / 122 (3.28%)	
occurrences causally related to treatment / all	15 / 32	0 / 4	
deaths causally related to treatment / all	2 / 8	0 / 3	
Septic shock			
subjects affected / exposed	16 / 270 (5.93%)	2 / 122 (1.64%)	
occurrences causally related to treatment / all	2 / 16	1 / 2	
deaths causally related to treatment / all	1 / 9	0 / 0	
Cellulitis			
subjects affected / exposed	14 / 270 (5.19%)	2 / 122 (1.64%)	
occurrences causally related to treatment / all	10 / 22	0 / 2	
deaths causally related to treatment / all	0 / 0	0 / 0	
Bacteraemia			
subjects affected / exposed	11 / 270 (4.07%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	3 / 12	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Urinary tract infection			
subjects affected / exposed	5 / 270 (1.85%)	3 / 122 (2.46%)	
occurrences causally related to treatment / all	1 / 6	1 / 3	
deaths causally related to treatment / all	0 / 0	0 / 0	
Bronchopulmonary aspergillosis			
subjects affected / exposed	4 / 270 (1.48%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	2 / 4	0 / 0	
deaths causally related to treatment / all	1 / 1	0 / 0	
Infection			
subjects affected / exposed	4 / 270 (1.48%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	3 / 4	0 / 1	
deaths causally related to treatment / all	1 / 1	0 / 1	
Urosepsis			
subjects affected / exposed	4 / 270 (1.48%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 4	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Anal abscess			

subjects affected / exposed	3 / 270 (1.11%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	3 / 3	0 / 0	
deaths causally related to treatment / all	1 / 1	0 / 0	
Device related infection			
subjects affected / exposed	3 / 270 (1.11%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	1 / 3	1 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Bronchitis			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Cellulitis orbital			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Chronic sinusitis			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Corynebacterium infection			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	2 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pseudomonal bacteraemia			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Respiratory tract infection			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 3	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Sinusitis			

subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Staphylococcal bacteraemia			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Subcutaneous abscess			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Abscess jaw			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Anorectal infection			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	3 / 3	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Brain abscess			
subjects affected / exposed	1 / 270 (0.37%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 1	1 / 1	
deaths causally related to treatment / all	0 / 1	0 / 0	
Clostridial infection			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Clostridium difficile colitis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Corona virus infection			

subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Endocarditis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Endophthalmitis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Enterococcal infection			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Enterocolitis infectious			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Fungal infection			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gingivitis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Furuncle			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Haematoma infection			

subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Herpes virus infection			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Influenza			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Metapneumovirus infection			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Mucormycosis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Necrotising fasciitis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Necrotising soft tissue infection			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Otitis media acute			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pharyngitis			

subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Periorbital cellulitis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pneumococcal sepsis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pseudomembranous colitis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pyelonephritis acute			
subjects affected / exposed	1 / 270 (0.37%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Pyelonephritis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Sinusitis fungal			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Soft tissue infection			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Staphylococcal infection			



subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Streptococcal bacteraemia			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Streptococcal endocarditis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Streptococcal infection			
subjects affected / exposed	1 / 270 (0.37%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 1	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Upper respiratory tract infection			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Urinary tract infection staphylococcal			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Vulval cellulitis			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 2	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Wound abscess			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Candida infection			

subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	1 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Clostridium bacteraemia			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Erysipelas			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Gastroenteritis			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Lower respiratory tract infection			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Nocardiosis			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	
Metabolism and nutrition disorders			
Tumour lysis syndrome			
subjects affected / exposed	2 / 270 (0.74%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 3	0 / 0	
deaths causally related to treatment / all	0 / 1	0 / 0	
Dehydration			
subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	1 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hyperglycaemia			

subjects affected / exposed	1 / 270 (0.37%)	0 / 122 (0.00%)	
occurrences causally related to treatment / all	0 / 1	0 / 0	
deaths causally related to treatment / all	0 / 0	0 / 0	
Hyperkalaemia			
subjects affected / exposed	0 / 270 (0.00%)	1 / 122 (0.82%)	
occurrences causally related to treatment / all	0 / 0	0 / 1	
deaths causally related to treatment / all	0 / 0	0 / 0	

Notes:

[1] - The number of subjects exposed to this adverse event is less than the total number of subjects exposed to this adverse event. These numbers are expected to be equal.

Justification: Number of subjects at risk are based on the male population.

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

<b>Non-serious adverse events</b>	<b>Guadecitabine</b>	<b>Treatment Choice</b>	
Total subjects affected by non-serious adverse events			
subjects affected / exposed	266 / 270 (98.52%)	107 / 122 (87.70%)	
Vascular disorders			
Haematoma			
subjects affected / exposed	15 / 270 (5.56%)	5 / 122 (4.10%)	
occurrences (all)	23	7	
Hypotension			
subjects affected / exposed	17 / 270 (6.30%)	3 / 122 (2.46%)	
occurrences (all)	19	6	
General disorders and administration site conditions			
Injection site reaction			
subjects affected / exposed	46 / 270 (17.04%)	1 / 122 (0.82%)	
occurrences (all)	80	1	
Asthenia			
subjects affected / exposed	53 / 270 (19.63%)	12 / 122 (9.84%)	
occurrences (all)	65	12	
Fatigue			
subjects affected / exposed	59 / 270 (21.85%)	11 / 122 (9.02%)	
occurrences (all)	75	12	
Oedema peripheral			
subjects affected / exposed	42 / 270 (15.56%)	14 / 122 (11.48%)	
occurrences (all)	56	18	
Oedema			

subjects affected / exposed occurrences (all)	14 / 270 (5.19%) 15	9 / 122 (7.38%) 9	
Pyrexia subjects affected / exposed occurrences (all)	60 / 270 (22.22%) 89	24 / 122 (19.67%) 33	
Respiratory, thoracic and mediastinal disorders Cough subjects affected / exposed occurrences (all)	39 / 270 (14.44%) 48	8 / 122 (6.56%) 10	
Dyspnoea subjects affected / exposed occurrences (all)	33 / 270 (12.22%) 42	11 / 122 (9.02%) 12	
Epistaxis subjects affected / exposed occurrences (all)	44 / 270 (16.30%) 56	21 / 122 (17.21%) 36	
Oropharyngeal pain subjects affected / exposed occurrences (all)	14 / 270 (5.19%) 17	3 / 122 (2.46%) 3	
Psychiatric disorders Insomnia subjects affected / exposed occurrences (all)	31 / 270 (11.48%) 32	5 / 122 (4.10%) 5	
Investigations Blood creatinine increased subjects affected / exposed occurrences (all)	14 / 270 (5.19%) 16	5 / 122 (4.10%) 8	
Alanine aminotransferase increased subjects affected / exposed occurrences (all)	13 / 270 (4.81%) 17	8 / 122 (6.56%) 8	
Aspartate aminotransferase increased subjects affected / exposed occurrences (all)	10 / 270 (3.70%) 12	8 / 122 (6.56%) 8	
Weight decreased subjects affected / exposed occurrences (all)	22 / 270 (8.15%) 27	6 / 122 (4.92%) 6	
Injury, poisoning and procedural			

complications			
Contusion			
subjects affected / exposed	24 / 270 (8.89%)	8 / 122 (6.56%)	
occurrences (all)	35	9	
Transfusion reaction			
subjects affected / exposed	17 / 270 (6.30%)	3 / 122 (2.46%)	
occurrences (all)	66	3	
Fall			
subjects affected / exposed	17 / 270 (6.30%)	5 / 122 (4.10%)	
occurrences (all)	20	5	
Nervous system disorders			
Headache			
subjects affected / exposed	34 / 270 (12.59%)	9 / 122 (7.38%)	
occurrences (all)	42	11	
Dizziness			
subjects affected / exposed	34 / 270 (12.59%)	8 / 122 (6.56%)	
occurrences (all)	39	9	
Blood and lymphatic system disorders			
Anaemia			
subjects affected / exposed	63 / 270 (23.33%)	22 / 122 (18.03%)	
occurrences (all)	120	48	
Febrile neutropenia			
subjects affected / exposed	38 / 270 (14.07%)	6 / 122 (4.92%)	
occurrences (all)	70	6	
Leukopenia			
subjects affected / exposed	32 / 270 (11.85%)	12 / 122 (9.84%)	
occurrences (all)	64	13	
Neutropenia			
subjects affected / exposed	92 / 270 (34.07%)	19 / 122 (15.57%)	
occurrences (all)	276	20	
Thrombocytopenia			
subjects affected / exposed	84 / 270 (31.11%)	25 / 122 (20.49%)	
occurrences (all)	278	66	
Gastrointestinal disorders			
Abdominal pain			
subjects affected / exposed	27 / 270 (10.00%)	6 / 122 (4.92%)	
occurrences (all)	28	8	

Diarrhoea			
subjects affected / exposed	60 / 270 (22.22%)	20 / 122 (16.39%)	
occurrences (all)	78	23	
Constipation			
subjects affected / exposed	62 / 270 (22.96%)	12 / 122 (9.84%)	
occurrences (all)	79	17	
Nausea			
subjects affected / exposed	43 / 270 (15.93%)	15 / 122 (12.30%)	
occurrences (all)	66	22	
Haemorrhoids			
subjects affected / exposed	16 / 270 (5.93%)	4 / 122 (3.28%)	
occurrences (all)	16	4	
Stomatitis			
subjects affected / exposed	38 / 270 (14.07%)	7 / 122 (5.74%)	
occurrences (all)	50	10	
Vomiting			
subjects affected / exposed	29 / 270 (10.74%)	7 / 122 (5.74%)	
occurrences (all)	36	9	
Skin and subcutaneous tissue disorders			
Petechiae			
subjects affected / exposed	24 / 270 (8.89%)	2 / 122 (1.64%)	
occurrences (all)	29	3	
Erythema			
subjects affected / exposed	14 / 270 (5.19%)	2 / 122 (1.64%)	
occurrences (all)	19	2	
Rash			
subjects affected / exposed	27 / 270 (10.00%)	7 / 122 (5.74%)	
occurrences (all)	34	9	
Pruritus			
subjects affected / exposed	19 / 270 (7.04%)	2 / 122 (1.64%)	
occurrences (all)	19	3	
Musculoskeletal and connective tissue disorders			
Arthralgia			
subjects affected / exposed	18 / 270 (6.67%)	5 / 122 (4.10%)	
occurrences (all)	20	6	
Pain in extremity			

subjects affected / exposed	15 / 270 (5.56%)	7 / 122 (5.74%)	
occurrences (all)	18	7	
Musculoskeletal pain			
subjects affected / exposed	17 / 270 (6.30%)	2 / 122 (1.64%)	
occurrences (all)	21	2	
Back pain			
subjects affected / exposed	33 / 270 (12.22%)	3 / 122 (2.46%)	
occurrences (all)	40	5	
Infections and infestations			
Cellulitis			
subjects affected / exposed	22 / 270 (8.15%)	4 / 122 (3.28%)	
occurrences (all)	30	4	
Pneumonia			
subjects affected / exposed	40 / 270 (14.81%)	8 / 122 (6.56%)	
occurrences (all)	50	11	
Nasopharyngitis			
subjects affected / exposed	10 / 270 (3.70%)	7 / 122 (5.74%)	
occurrences (all)	11	8	
Urinary tract infection			
subjects affected / exposed	13 / 270 (4.81%)	7 / 122 (5.74%)	
occurrences (all)	14	8	
Upper respiratory tract infection			
subjects affected / exposed	16 / 270 (5.93%)	7 / 122 (5.74%)	
occurrences (all)	21	7	
Metabolism and nutrition disorders			
Hypomagnesaemia			
subjects affected / exposed	14 / 270 (5.19%)	5 / 122 (4.10%)	
occurrences (all)	17	8	
Hypokalaemia			
subjects affected / exposed	45 / 270 (16.67%)	6 / 122 (4.92%)	
occurrences (all)	63	6	
Decreased appetite			
subjects affected / exposed	49 / 270 (18.15%)	5 / 122 (4.10%)	
occurrences (all)	55	6	

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
19 September 2016	Amendment 1: 1. Incorporated changes required by the voluntary harmonization procedure (VHP) assessment of the protocol after clinical trial application in Europe. VHP-required changes and sponsor changes were implemented to specify/clarify the schedule of events and laboratory tests, as well as to correct errors. 2. Acceptable contraceptive methods were specified. 3. Documented pregnancy was added as a discontinuation criterion. 4. Study center regions for subgroup analyses were specified to be North America, Europe, Asia-Pacific, and Other. 5. Additional trial termination criteria were added.
19 September 2017	Amendment 2: 1. Incorporated changes from minor UK/France amendment 1.1 2. Entry criteria, assessments, and procedural details were clarified to ensure study integrity. 3. Specifically, inclusion criterion #4 was modified to clarify that subjects were eligible if they were transfusion-dependent at screening, whether or not they were transfusion-dependent before HMA treatment and that disease progression could also happen after Cycle, as well as to more clearly align the disease progression definition for BM blasts and hemoglobin with the IWG 2006 progression criteria. 4. Clarified that blood samples were sufficient for gene mutation analysis. 5. Clarified that BM assessments to confirm eligibility may be collected within 28 days before randomisation (instead of 28 days before first dose) and cytogenetic assessments.
15 February 2018	Amendment 3: 1. Excluded subjects with a life expectancy of less than one month because these subjects would not have enough time for the study treatment to show an effect. 2. Allowed for primary analysis at or after 12 months of follow-up if 277 death events occurred (instead of 316 death events), to keep the study duration to a reasonable time, if fewer death events than anticipated have occurred, without significantly compromising the power of the study. 3. Allowed hydroxyurea in the first 30 days of guadecitabine treatment for subjects who had proliferative disease such as CMML, to control high White Blood Cells (WBC) counts and allow subjects to receive at least 2 cycles of treatment. 4. Clarified that, after discontinuing study treatment, subjects should not withdraw consent just because they wish to participate in another experimental study. 5. Clarified that survival status (at least) should be pursued, and a subject was still considered to be on study, even if a subject refused one or more longterm follow-up visits. This was to protect the study primary endpoint of overall survival. 6. Specified that conversion to AML was to be assessed, as this was an important milestone for disease progression. 7. Clarified that subjects assigned to BSC had Electrocardiography (ECG) assessment at the safety follow-up visit, as well as on Cycle 1 Day 1, consistent with the schedule of events. 8. Clarified and simplified the Pharmacokinetics PK analyses. 9. Clarified that a WBC differential manual count was to be conducted if there was suspicion of PB blasts.
02 October 2018	Amendment 4: 1. Excluded subjects with TP53 mutations: Based on emerging data, it was possible that, as a group, subjects with TP53 mutations were less likely to benefit from guadecitabine treatment. 2. Increased screening period from 14 to 21 days, to allow time for study centers to receive TP53 mutation results before randomisation. 3. Allowed institutional standard follow-up for subjects receiving TC: Subjects assigned to TC (LDAC, standard IC, or BSC) may have been followed up according to their investigative centers' standard practice, for convenience for both subject and study center. 4. Allowed a 4-day window for Day 1 weight assessment in each cycle: This corresponded to the 4-day window for hematology assessment and eliminated unnecessary repeat assessments.

Notes:



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## **Interruptions (globally)**

Were there any global interruptions to the trial? No

## **Limitations and caveats**

None reported