



## Clinical trial results:

### A Phase 1 Study of BMS-354825 (Dasatinib) in Children with Recurrent/Refractory Solid Tumors or Imatinib Resistant Ph+ Leukemia. ADVL0516

#### Summary

EudraCT number	2010-022945-52
Trial protocol	Outside EU/EEA
Global end of trial date	07 February 2009

#### Results information

Result version number	v1 (current)
This version publication date	04 November 2017
First version publication date	04 November 2017

#### Trial information

##### Trial identification

Sponsor protocol code	CA180-038
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##### Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT00316953
WHO universal trial number (UTN)	-
Other trial identifiers	Bristol Myers Squibb: CA180-038

Notes:

#### Sponsors

Sponsor organisation name	Children's Oncology Group
Sponsor organisation address	3615 Civic Center Blvd., Philadelphia, United States, 19104
Public contact	Richard Aplenc, Study Chair, The Children's Hospital of Philadelphia, 1 267426 7252, raplenc@mail.med.upenn.edu
Scientific contact	Richard Aplenc, Study Chair, The Children's Hospital of Philadelphia, 1 267426 7252, raplenc@mail.med.upenn.edu

Notes:

#### Paediatric regulatory details

Is trial part of an agreed paediatric investigation plan (PIP)	Yes
EMA paediatric investigation plan number(s)	EMA-000567-PIP01-09
Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial?	No
Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial?	Yes

Notes:

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**Results analysis stage**

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Analysis stage	Final
Date of interim/final analysis	07 February 2009
Is this the analysis of the primary completion data?	No

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Global end of trial reached?	Yes
Global end of trial date	07 February 2009
Was the trial ended prematurely?	No

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Notes:

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**General information about the trial**

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Main objective of the trial:

The main objectives of the trial were: - Describe and define the toxicities, estimate the MTD, and recommend a Phase 2 dose of dasatinib administered as an oral agent given twice daily in children with refractory solid tumors. - Describe and define the toxicities of dasatinib administered as an oral agent given twice daily in children with imatinib resistant Ph+ leukemia. - Characterize the PK of dasatinib in children with refractory solid tumors and imatinib resistant Ph+ leukemia.

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Protection of trial subjects:

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

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Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	20 March 2006
Long term follow-up planned	No
Independent data monitoring committee (IDMC) involvement?	Yes

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Notes:

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**Population of trial subjects**

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**Subjects enrolled per country**

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Country: Number of subjects enrolled	United States: 40
Worldwide total number of subjects	40
EEA total number of subjects	0

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Notes:

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**Subjects enrolled per age group**

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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)	23
Adolescents (12-17 years)	15
Adults (18-64 years)	2
From 65 to 84 years	0

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85 years and over	0
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## Subject disposition

### Recruitment

Recruitment details:

Subjects were enrolled at 19 sites in the United States.

### Pre-assignment

Screening details:

A total of 40 subjects were enrolled and treated in the study.

### Period 1

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

### Arms

Are arms mutually exclusive?	Yes
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<b>Arm title</b>	Solid Tumor, pediatric
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Arm description:

Dasatinib was administered orally twice daily for 28 days (1 course of therapy). A course could be repeated every 28 days if the subject had stable disease and met pre-specified laboratory criteria. A course could be repeated 24 times, for a total of 24 courses. All subjects were started on 50 mg/m<sup>2</sup>/dose twice daily (BID). Doses were adjusted based on body surface area (BSA) determined at the beginning of each course. Dose level 1 had a dose of 50 mg/m<sup>2</sup>/dose BID, Dose level 2 had a dose of 65 mg/m<sup>2</sup>/dose BID, Dose level 3 had a dose of 85 mg/m<sup>2</sup>/dose BID, and Dose level 4 had a dose of 110 mg/m<sup>2</sup>/dose BID

Arm type	Experimental
Investigational medicinal product name	Dasatinib
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Film-coated tablet, Tablet
Routes of administration	Oral use

Dosage and administration details:

Subjects received Dasatinib tablets orally at a starting dose of 50 mg/m<sup>2</sup> twice daily (BID). Doses were adjusted based on body surface area determined at the beginning of each course. Dose escalation occurred in the solid tumors stratum and the maximum tolerated dose (MTD) for each dose level is as follows: dose level 1 was 50 mg/m<sup>2</sup> BID, dose level 2 was 65 mg/m<sup>2</sup> BID, dose level 3 was 85 mg/m<sup>2</sup> BID, and dose level 4 was 110 mg/m<sup>2</sup> BID. If MTD was exceeded at the first dose level, then the subsequent cohort of subjects were treated with 40 mg/m<sup>2</sup> BID. Dasatinib was supplied as white to off-white round or biconvex round or oval film-coated tablets in doses of 5 mg, 20 mg, 50 mg, and 70 mg. mg=milligram

<b>Arm title</b>	Leukemia, pediatric
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Arm description:

Dasatinib was administered orally twice daily for 28 days (1 course of therapy). A course could be repeated every 28 days if the subject had stable disease and met pre-specified laboratory criteria. A course could be repeated 24 times, for a total of 24 courses. All subjects were started on 50 mg/m<sup>2</sup>/dose twice daily (BID). Doses were adjusted based on body surface area (BSA) determined at the beginning of each course. Dose level 1 had a dose of 50 mg/m<sup>2</sup>/dose BID, Dose level 2 had a dose of 65 mg/m<sup>2</sup>/dose BID, Dose level 3 had a dose of 85 mg/m<sup>2</sup>/dose BID, and Dose level 4 had a dose of 110 mg/m<sup>2</sup>/dose BID

Arm type	Experimental
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Investigational medicinal product name	Dasatinib
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Film-coated tablet, Tablet
Routes of administration	Oral use

**Dosage and administration details:**

Subjects received Dasatinib tablets orally at a starting dose of 50 mg/m<sup>2</sup> twice daily (BID). Subjects in this stratum dose-escalated one dose below the one under study in solid tumors subjects. If the 50 mg/m<sup>2</sup> BID dose was not tolerated in a full cohort of refractory Ph+ leukemia subjects, then the dose was de-escalated to 40 mg/m<sup>2</sup> BID in this stratum. Dasatinib was supplied as white to off-white round or biconvex round or oval film-coated tablets in doses of 5 mg, 20 mg, 50 mg, and 70 mg. mg=milligram

<b>Arm title</b>	Solid tumor, adult
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**Arm description:**

Dasatinib was administered orally twice daily for 28 days (1 course of therapy). A course could be repeated every 28 days if the subject had stable disease and met pre-specified laboratory criteria. A course could be repeated 24 times, for a total of 24 courses. All subjects were started on 50 mg/m<sup>2</sup>/dose twice daily (BID). Doses were adjusted based on body surface area (BSA) determined at the beginning of each course. Dose level 1 had a dose of 50 mg/m<sup>2</sup>/dose BID, Dose level 2 had a dose of 65 mg/m<sup>2</sup>/dose BID, Dose level 3 had a dose of 85 mg/m<sup>2</sup>/dose BID, and Dose level 4 had a dose of 110 mg/m<sup>2</sup>/dose BID

Arm type	Experimental
Investigational medicinal product name	Dasatinib
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Film-coated tablet, Tablet
Routes of administration	Oral use

**Dosage and administration details:**

Subjects received Dasatinib tablets orally at a starting dose of 50 mg/m<sup>2</sup> twice daily (BID). Doses were adjusted based on body surface area determined at the beginning of each course. Dose escalation occurred in the solid tumors stratum and the maximum tolerated dose (MTD) for each dose level is as follows: dose level 1 was 50 mg/m<sup>2</sup> BID, dose level 2 was 65 mg/m<sup>2</sup> BID, dose level 3 was 85 mg/m<sup>2</sup> BID, and dose level 4 was 110 mg/m<sup>2</sup> BID. If MTD was exceeded at the first dose level, then the subsequent cohort of subjects were treated with 40 mg/m<sup>2</sup> BID. Dasatinib was supplied as white to off-white round or biconvex round or oval film-coated tablets in doses of 5 mg, 20 mg, 50 mg, and 70 mg. mg=milligram

<b>Number of subjects in period 1</b>	<b>Solid Tumor, pediatric</b>	<b>Leukemia, pediatric</b>	<b>Solid tumor, adult</b>
Started	27	11	2
Completed	0	0	0
Not completed	27	11	2
Completion of protocol planned therapy	-	2	-
Adverse events requiring removal from therapy	5	-	-
Adverse events requiring removal from therapy	-	2	-
Death on treatment	-	-	1
Clinical or radiographic disease progression	15	1	-
Physician determined non-compliance	-	1	-
Refusal of further protocol therapy	5	3	1

Physician determined not in patient's interest	-	2	-
Physician determined not in the patient's interest	2	-	-

## Baseline characteristics

### Reporting groups

Reporting group title	Solid Tumor, pediatric
Reporting group description:	
Dasatinib was administered orally twice daily for 28 days (1 course of therapy). A course could be repeated every 28 days if the subject had stable disease and met pre-specified laboratory criteria. A course could be repeated 24 times, for a total of 24 courses. All subjects were started on 50 mg/m <sup>2</sup> /dose twice daily (BID). Doses were adjusted based on body surface area (BSA) determined at the beginning of each course. Dose level 1 had a dose of 50 mg/m <sup>2</sup> /dose BID, Dose level 2 had a dose of 65 mg/m <sup>2</sup> /dose BID, Dose level 3 had a dose of 85 mg/m <sup>2</sup> /dose BID, and Dose level 4 had a dose of 110 mg/m <sup>2</sup> /dose BID	
Reporting group title	Leukemia, pediatric
Reporting group description:	
Dasatinib was administered orally twice daily for 28 days (1 course of therapy). A course could be repeated every 28 days if the subject had stable disease and met pre-specified laboratory criteria. A course could be repeated 24 times, for a total of 24 courses. All subjects were started on 50 mg/m <sup>2</sup> /dose twice daily (BID). Doses were adjusted based on body surface area (BSA) determined at the beginning of each course. Dose level 1 had a dose of 50 mg/m <sup>2</sup> /dose BID, Dose level 2 had a dose of 65 mg/m <sup>2</sup> /dose BID, Dose level 3 had a dose of 85 mg/m <sup>2</sup> /dose BID, and Dose level 4 had a dose of 110 mg/m <sup>2</sup> /dose BID	
Reporting group title	Solid tumor, adult
Reporting group description:	
Dasatinib was administered orally twice daily for 28 days (1 course of therapy). A course could be repeated every 28 days if the subject had stable disease and met pre-specified laboratory criteria. A course could be repeated 24 times, for a total of 24 courses. All subjects were started on 50 mg/m <sup>2</sup> /dose twice daily (BID). Doses were adjusted based on body surface area (BSA) determined at the beginning of each course. Dose level 1 had a dose of 50 mg/m <sup>2</sup> /dose BID, Dose level 2 had a dose of 65 mg/m <sup>2</sup> /dose BID, Dose level 3 had a dose of 85 mg/m <sup>2</sup> /dose BID, and Dose level 4 had a dose of 110 mg/m <sup>2</sup> /dose BID	

Reporting group values	Solid Tumor, pediatric	Leukemia, pediatric	Solid tumor, adult
Number of subjects	27	11	2
Age categorical			
Units: Subjects			
2 - <11 years	13	6	0
11 - <18 years	14	5	0
>=18 years	0	0	2
Age continuous			
Units: years			
arithmetic mean	10.25	10.45	19
full range (min-max)	2 to 17	2 to 17	18 to 20
Gender categorical			
Units: Subjects			
Female	14	4	1
Male	13	7	1
Race			
Units: Subjects			
White	19	7	2
Black or African American	5	1	0
American Indian or Alaska Native	0	0	0
Native Hawaiian or Other Pacific Islander	0	0	0
Asian Indian/Pakistani/Filipino	2	0	0

Other	1	1	0
Unknown	0	2	0

<b>Reporting group values</b>	Total		
Number of subjects	40		
Age categorical			
Units: Subjects			
2 - <11 years	19		
11 - <18 years	19		
>=18 years	2		
Age continuous			
Units: years			
arithmetic mean			
full range (min-max)	-		
Gender categorical			
Units: Subjects			
Female	19		
Male	21		
Race			
Units: Subjects			
White	28		
Black or African American	6		
American Indian or Alaska Native	0		
Native Hawaiian or Other Pacific Islander	0		
Asian Indian/Pakistani/Filipino	2		
Other	2		
Unknown	2		



## End points

### End points reporting groups

Reporting group title	Solid Tumor, pediatric
Reporting group description:	
Dasatinib was administered orally twice daily for 28 days (1 course of therapy). A course could be repeated every 28 days if the subject had stable disease and met pre-specified laboratory criteria. A course could be repeated 24 times, for a total of 24 courses. All subjects were started on 50 mg/m <sup>2</sup> /dose twice daily (BID). Doses were adjusted based on body surface area (BSA) determined at the beginning of each course. Dose level 1 had a dose of 50 mg/m <sup>2</sup> /dose BID, Dose level 2 had a dose of 65 mg/m <sup>2</sup> /dose BID, Dose level 3 had a dose of 85 mg/m <sup>2</sup> /dose BID, and Dose level 4 had a dose of 110 mg/m <sup>2</sup> /dose BID	
Reporting group title	Leukemia, pediatric
Reporting group description:	
Dasatinib was administered orally twice daily for 28 days (1 course of therapy). A course could be repeated every 28 days if the subject had stable disease and met pre-specified laboratory criteria. A course could be repeated 24 times, for a total of 24 courses. All subjects were started on 50 mg/m <sup>2</sup> /dose twice daily (BID). Doses were adjusted based on body surface area (BSA) determined at the beginning of each course. Dose level 1 had a dose of 50 mg/m <sup>2</sup> /dose BID, Dose level 2 had a dose of 65 mg/m <sup>2</sup> /dose BID, Dose level 3 had a dose of 85 mg/m <sup>2</sup> /dose BID, and Dose level 4 had a dose of 110 mg/m <sup>2</sup> /dose BID	
Reporting group title	Solid tumor, adult
Reporting group description:	
Dasatinib was administered orally twice daily for 28 days (1 course of therapy). A course could be repeated every 28 days if the subject had stable disease and met pre-specified laboratory criteria. A course could be repeated 24 times, for a total of 24 courses. All subjects were started on 50 mg/m <sup>2</sup> /dose twice daily (BID). Doses were adjusted based on body surface area (BSA) determined at the beginning of each course. Dose level 1 had a dose of 50 mg/m <sup>2</sup> /dose BID, Dose level 2 had a dose of 65 mg/m <sup>2</sup> /dose BID, Dose level 3 had a dose of 85 mg/m <sup>2</sup> /dose BID, and Dose level 4 had a dose of 110 mg/m <sup>2</sup> /dose BID	

### Primary: Number of Subjects With Death, Serious Adverse Events (SAEs), SAE Leading to Discontinuation, and Drug-Related Adverse Event (AE)

End point title	Number of Subjects With Death, Serious Adverse Events (SAEs), SAE Leading to Discontinuation, and Drug-Related Adverse Event (AE) <sup>[1]</sup>
End point description:	
AE=any new unfavorable symptom, sign, or disease or worsening of a preexisting condition that may not have a causal relationship with treatment. SAE=a medical event that at any dose results in death, persistent or significant disability/incapacity, or drug dependency/abuse; is life-threatening, an important medical event, or a congenital anomaly/birth defect; or requires or prolongs hospitalization. Treatment-related=having certain, probable, possible, or missing relationship to study drug. Grade (Gr) 1=Mild, Gr 2=Moderate, Gr 3=Severe, Gr 4= Potentially Life-threatening or disabling.	
End point type	Primary
End point timeframe:	
From the date of first dose of study medication to within 30 days post the last dose (approx. 3 years)	

Notes:

[1] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Only summary statistics were planned for this endpoint

End point values	Solid Tumor, pediatric	Leukemia, pediatric	Solid tumor, adult	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	27	11	2	
Units: subjects				
SAE	9	4	2	
SAE Leading to Discontinuation	4	2	1	
Drug-Related AE	24	11	1	
Deaths	16	1	1	
Deaths Within 30 Days of End of Study	3	0	1	

## Statistical analyses

No statistical analyses for this end point

## Primary: Number of Subjects with At Least One Dose-Limiting Toxicity (DLT)

End point title	Number of Subjects with At Least One Dose-Limiting Toxicity (DLT) <sup>[2]</sup>
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End point description:

Dose-limiting toxicity was defined as specific AEs that were considered by the investigator to be possibly, probably, or definitely attributable to dasatinib treatment. Population includes DLT Evaluable Subjects: all subjects who received dasatinib and either experienced a DLT at any time during treatment or received at least 85% of the prescribed dose per the protocol.

End point type	Primary
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End point timeframe:

From the date of first dose of study medication to within 30 days post the last dose (approx. 3 years)

Notes:

[2] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Only summary statistics were planned for this endpoint

End point values	Solid Tumor, pediatric	Leukemia, pediatric	Solid tumor, adult	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	17	11	1	
Units: subjects	2	3	1	

## Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

From the first dose of study drug until the last dose of study drug plus 30 days

Assessment type	Systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	19.0
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### Reporting groups

Reporting group title	Solid Tumors (pediatric)
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Reporting group description:

Solid Tumors

Reporting group title	Leukemia
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Reporting group description:

Leukemia

Reporting group title	Solid Tumors (adult)
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Reporting group description:

Dasatinib was administered orally twice daily for 28 days (1 course of therapy). A course could be repeated every 28 days if the subject had stable disease and met pre-specified laboratory criteria. A course could be repeated 24 times, for a total of 24 courses. All subjects were started on 50 mg/m<sup>2</sup>/dose twice daily (BID). Doses were adjusted based on body surface area (BSA) determined at the beginning of each course. Dose level 1 had a dose of 50 mg/m<sup>2</sup>/dose BID, Dose level 2 had a dose of 65 mg/m<sup>2</sup>/dose BID, Dose level 3 had a dose of 85 mg/m<sup>2</sup>/dose BID, and Dose level 4 had a dose of 110 mg/m<sup>2</sup>/dose BID

Serious adverse events	Solid Tumors (pediatric)	Leukemia	Solid Tumors (adult)
Total subjects affected by serious adverse events			
subjects affected / exposed	9 / 27 (33.33%)	4 / 11 (36.36%)	2 / 2 (100.00%)
number of deaths (all causes)	3	0	1
number of deaths resulting from adverse events			
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Tumour pain			
subjects affected / exposed	1 / 27 (3.70%)	0 / 11 (0.00%)	1 / 2 (50.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Vascular disorders			
Hypotension			
subjects affected / exposed	1 / 27 (3.70%)	0 / 11 (0.00%)	0 / 2 (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
General disorders and administration			

site conditions			
Pyrexia			
subjects affected / exposed	4 / 27 (14.81%)	0 / 11 (0.00%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	4 / 4	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Chest pain			
subjects affected / exposed	1 / 27 (3.70%)	0 / 11 (0.00%)	0 / 2 (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
Death			
subjects affected / exposed	3 / 27 (11.11%)	0 / 11 (0.00%)	1 / 2 (50.00%)
occurrences causally related to treatment / all	0 / 3	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 3	0 / 0	0 / 1
Disease progression			
subjects affected / exposed	2 / 27 (7.41%)	0 / 11 (0.00%)	1 / 2 (50.00%)
occurrences causally related to treatment / all	0 / 2	0 / 0	0 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Respiratory, thoracic and mediastinal disorders			
Hypoxia			
subjects affected / exposed	2 / 27 (7.41%)	0 / 11 (0.00%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	1 / 2	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Apnoea			
subjects affected / exposed	1 / 27 (3.70%)	0 / 11 (0.00%)	0 / 2 (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
Psychiatric disorders			
Confusional state			
subjects affected / exposed	1 / 27 (3.70%)	0 / 11 (0.00%)	1 / 2 (50.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Photophobia			

subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (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
<b>Investigations</b>			
Haemoglobin decreased			
subjects affected / exposed	2 / 27 (7.41%)	0 / 11 (0.00%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	4 / 4	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Granulocyte count decreased			
subjects affected / exposed	2 / 27 (7.41%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	2 / 2	1 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Neutrophil count decreased			
subjects affected / exposed	2 / 27 (7.41%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	2 / 2	1 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
White blood cell count decreased			
subjects affected / exposed	2 / 27 (7.41%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	3 / 3	2 / 2	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Platelet count decreased			
subjects affected / exposed	1 / 27 (3.70%)	2 / 11 (18.18%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	1 / 1	2 / 2	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>Nervous system disorders</b>			
Headache			
subjects affected / exposed	1 / 27 (3.70%)	2 / 11 (18.18%)	1 / 2 (50.00%)
occurrences causally related to treatment / all	1 / 1	2 / 3	1 / 1
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
<b>Blood and lymphatic system disorders</b>			
Lymphopenia			
subjects affected / exposed	2 / 27 (7.41%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	2 / 2	1 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Gastrointestinal disorders			
Diarrhoea			
subjects affected / exposed	1 / 27 (3.70%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	1 / 1	2 / 2	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Vomiting			
subjects affected / exposed	1 / 27 (3.70%)	0 / 11 (0.00%)	0 / 2 (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
Nausea			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	0 / 0	1 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Abdominal pain			
subjects affected / exposed	1 / 27 (3.70%)	0 / 11 (0.00%)	0 / 2 (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
Skin and subcutaneous tissue disorders			
Urticaria			
subjects affected / exposed	1 / 27 (3.70%)	0 / 11 (0.00%)	0 / 2 (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
Exfoliative rash			
subjects affected / exposed	1 / 27 (3.70%)	0 / 11 (0.00%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	2 / 2	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Renal and urinary disorders			
Proteinuria			
subjects affected / exposed	1 / 27 (3.70%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	1 / 1	1 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Musculoskeletal and connective tissue disorders			
Back pain			

subjects affected / exposed	1 / 27 (3.70%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Pain in extremity			
subjects affected / exposed	2 / 27 (7.41%)	0 / 11 (0.00%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	0 / 2	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Arthralgia			
subjects affected / exposed	1 / 27 (3.70%)	0 / 11 (0.00%)	0 / 2 (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
Infections and infestations			
Sepsis			
subjects affected / exposed	2 / 27 (7.41%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	1 / 2	1 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Otitis media			
subjects affected / exposed	1 / 27 (3.70%)	0 / 11 (0.00%)	0 / 2 (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
Metabolism and nutrition disorders			
Hypocalcaemia			
subjects affected / exposed	1 / 27 (3.70%)	0 / 11 (0.00%)	0 / 2 (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
Hypoalbuminaemia			
subjects affected / exposed	2 / 27 (7.41%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	2 / 2	1 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Decreased appetite			
subjects affected / exposed	2 / 27 (7.41%)	0 / 11 (0.00%)	0 / 2 (0.00%)
occurrences causally related to treatment / all	2 / 2	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

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

<b>Non-serious adverse events</b>	<b>Solid Tumors (pediatric)</b>	<b>Leukemia</b>	<b>Solid Tumors (adult)</b>
Total subjects affected by non-serious adverse events			
subjects affected / exposed	26 / 27 (96.30%)	11 / 11 (100.00%)	2 / 2 (100.00%)
Neoplasms benign, malignant and unspecified (incl cysts and polyps)			
Haemangioma			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Vascular disorders			
Hypertension			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Flushing			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	2	0
Hypotension			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
General disorders and administration site conditions			
Chest pain			
subjects affected / exposed	2 / 27 (7.41%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	3	1	0
Chills			
subjects affected / exposed	2 / 27 (7.41%)	0 / 11 (0.00%)	0 / 2 (0.00%)
occurrences (all)	2	0	0
Disease progression			
subjects affected / exposed	1 / 27 (3.70%)	0 / 11 (0.00%)	0 / 2 (0.00%)
occurrences (all)	1	0	0
Fatigue			
subjects affected / exposed	11 / 27 (40.74%)	4 / 11 (36.36%)	0 / 2 (0.00%)
occurrences (all)	12	8	0
Gait disturbance			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0



Pyrexia subjects affected / exposed occurrences (all)	7 / 27 (25.93%) 8	4 / 11 (36.36%) 5	0 / 2 (0.00%) 0
Oedema subjects affected / exposed occurrences (all)	4 / 27 (14.81%) 5	1 / 11 (9.09%) 2	0 / 2 (0.00%) 0
Immune system disorders Drug hypersensitivity subjects affected / exposed occurrences (all)	0 / 27 (0.00%) 0	1 / 11 (9.09%) 1	0 / 2 (0.00%) 0
Reproductive system and breast disorders Pelvic pain subjects affected / exposed occurrences (all)	2 / 27 (7.41%) 2	0 / 11 (0.00%) 0	0 / 2 (0.00%) 0
Respiratory, thoracic and mediastinal disorders Cough subjects affected / exposed occurrences (all)	6 / 27 (22.22%) 7	2 / 11 (18.18%) 2	0 / 2 (0.00%) 0
Bronchospasm subjects affected / exposed occurrences (all)	2 / 27 (7.41%) 2	0 / 11 (0.00%) 0	0 / 2 (0.00%) 0
Dyspnoea subjects affected / exposed occurrences (all)	4 / 27 (14.81%) 4	0 / 11 (0.00%) 0	0 / 2 (0.00%) 0
Epistaxis subjects affected / exposed occurrences (all)	3 / 27 (11.11%) 3	0 / 11 (0.00%) 0	0 / 2 (0.00%) 0
Hypoxia subjects affected / exposed occurrences (all)	2 / 27 (7.41%) 2	0 / 11 (0.00%) 0	0 / 2 (0.00%) 0
Oropharyngeal pain subjects affected / exposed occurrences (all)	1 / 27 (3.70%) 1	2 / 11 (18.18%) 2	0 / 2 (0.00%) 0
Pleural effusion subjects affected / exposed occurrences (all)	3 / 27 (11.11%) 4	1 / 11 (9.09%) 1	0 / 2 (0.00%) 0

Respiratory alkalosis subjects affected / exposed occurrences (all)	0 / 27 (0.00%) 0	1 / 11 (9.09%) 1	0 / 2 (0.00%) 0
Rhinitis allergic subjects affected / exposed occurrences (all)	1 / 27 (3.70%) 1	1 / 11 (9.09%) 1	0 / 2 (0.00%) 0
Wheezing subjects affected / exposed occurrences (all)	2 / 27 (7.41%) 2	0 / 11 (0.00%) 0	0 / 2 (0.00%) 0
Tachypnoea subjects affected / exposed occurrences (all)	2 / 27 (7.41%) 2	0 / 11 (0.00%) 0	0 / 2 (0.00%) 0
Psychiatric disorders Confusional state subjects affected / exposed occurrences (all)	1 / 27 (3.70%) 2	1 / 11 (9.09%) 1	0 / 2 (0.00%) 0
Investigations Activated partial thromboplastin time prolonged subjects affected / exposed occurrences (all)	2 / 27 (7.41%) 2	1 / 11 (9.09%) 1	0 / 2 (0.00%) 0
Alanine aminotransferase increased subjects affected / exposed occurrences (all)	8 / 27 (29.63%) 10	6 / 11 (54.55%) 9	0 / 2 (0.00%) 0
Amylase increased subjects affected / exposed occurrences (all)	2 / 27 (7.41%) 2	0 / 11 (0.00%) 0	0 / 2 (0.00%) 0
Aspartate aminotransferase increased subjects affected / exposed occurrences (all)	15 / 27 (55.56%) 18	6 / 11 (54.55%) 13	0 / 2 (0.00%) 0
Blood alkaline phosphatase increased subjects affected / exposed occurrences (all)	3 / 27 (11.11%) 3	2 / 11 (18.18%) 2	0 / 2 (0.00%) 0
Blood bicarbonate decreased subjects affected / exposed occurrences (all)	2 / 27 (7.41%) 3	1 / 11 (9.09%) 3	0 / 2 (0.00%) 0
Blood bilirubin increased			

subjects affected / exposed	1 / 27 (3.70%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	1	1	0
Blood cholesterol increased			
subjects affected / exposed	2 / 27 (7.41%)	0 / 11 (0.00%)	0 / 2 (0.00%)
occurrences (all)	2	0	0
Blood creatine phosphokinase increased			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	2	0
Blood creatinine increased			
subjects affected / exposed	1 / 27 (3.70%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	1	1	0
Gamma-Glutamyltransferase increased			
subjects affected / exposed	4 / 27 (14.81%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	4	1	0
Granulocyte count decreased			
subjects affected / exposed	9 / 27 (33.33%)	5 / 11 (45.45%)	0 / 2 (0.00%)
occurrences (all)	10	5	0
Haemoglobin decreased			
subjects affected / exposed	11 / 27 (40.74%)	8 / 11 (72.73%)	0 / 2 (0.00%)
occurrences (all)	19	32	0
Liver palpable			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
International normalised ratio increased			
subjects affected / exposed	4 / 27 (14.81%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	4	1	0
Neutrophil count decreased			
subjects affected / exposed	9 / 27 (33.33%)	5 / 11 (45.45%)	0 / 2 (0.00%)
occurrences (all)	11	7	0
Platelet count decreased			
subjects affected / exposed	9 / 27 (33.33%)	5 / 11 (45.45%)	1 / 2 (50.00%)
occurrences (all)	12	8	1
Weight decreased			

subjects affected / exposed occurrences (all)	2 / 27 (7.41%) 2	1 / 11 (9.09%) 1	0 / 2 (0.00%) 0
Weight increased subjects affected / exposed occurrences (all)	0 / 27 (0.00%) 0	3 / 11 (27.27%) 3	0 / 2 (0.00%) 0
White blood cell count decreased subjects affected / exposed occurrences (all)	9 / 27 (33.33%) 13	7 / 11 (63.64%) 11	0 / 2 (0.00%) 0
Cardiac disorders Sinus bradycardia subjects affected / exposed occurrences (all)	0 / 27 (0.00%) 0	1 / 11 (9.09%) 2	0 / 2 (0.00%) 0
Sinus tachycardia subjects affected / exposed occurrences (all)	4 / 27 (14.81%) 4	0 / 11 (0.00%) 0	0 / 2 (0.00%) 0
Nervous system disorders Headache subjects affected / exposed occurrences (all)	7 / 27 (25.93%) 8	2 / 11 (18.18%) 4	0 / 2 (0.00%) 0
Neuropathy peripheral subjects affected / exposed occurrences (all)	2 / 27 (7.41%) 2	0 / 11 (0.00%) 0	0 / 2 (0.00%) 0
Tremor subjects affected / exposed occurrences (all)	0 / 27 (0.00%) 0	1 / 11 (9.09%) 1	0 / 2 (0.00%) 0
Blood and lymphatic system disorders Bone marrow failure subjects affected / exposed occurrences (all)	0 / 27 (0.00%) 0	1 / 11 (9.09%) 1	0 / 2 (0.00%) 0
Lymphopenia subjects affected / exposed occurrences (all)	7 / 27 (25.93%) 12	3 / 11 (27.27%) 10	0 / 2 (0.00%) 0
Ear and labyrinth disorders Ear pain subjects affected / exposed occurrences (all)	2 / 27 (7.41%) 2	0 / 11 (0.00%) 0	0 / 2 (0.00%) 0
Eye disorders			

Dry eye			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Gastrointestinal disorders			
Abdominal distension			
subjects affected / exposed	2 / 27 (7.41%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	2	1	0
Abdominal pain			
subjects affected / exposed	8 / 27 (29.63%)	4 / 11 (36.36%)	0 / 2 (0.00%)
occurrences (all)	10	7	0
Abdominal pain upper			
subjects affected / exposed	1 / 27 (3.70%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	1	1	0
Colitis			
subjects affected / exposed	1 / 27 (3.70%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	1	1	0
Constipation			
subjects affected / exposed	2 / 27 (7.41%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	2	1	0
Gastrointestinal haemorrhage			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	3	0
Diarrhoea			
subjects affected / exposed	11 / 27 (40.74%)	4 / 11 (36.36%)	1 / 2 (50.00%)
occurrences (all)	15	7	1
Haematochezia			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Nausea			
subjects affected / exposed	10 / 27 (37.04%)	5 / 11 (45.45%)	0 / 2 (0.00%)
occurrences (all)	12	7	0
Stomatitis			
subjects affected / exposed	3 / 27 (11.11%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	3	1	0
Vomiting			

subjects affected / exposed occurrences (all)	9 / 27 (33.33%) 14	2 / 11 (18.18%) 4	1 / 2 (50.00%) 1
Skin and subcutaneous tissue disorders			
Acne			
subjects affected / exposed	2 / 27 (7.41%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	2	2	0
Dry skin			
subjects affected / exposed	1 / 27 (3.70%)	2 / 11 (18.18%)	0 / 2 (0.00%)
occurrences (all)	1	3	0
Exfoliative rash			
subjects affected / exposed	7 / 27 (25.93%)	5 / 11 (45.45%)	1 / 2 (50.00%)
occurrences (all)	11	8	1
Hair colour changes			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Petechiae			
subjects affected / exposed	1 / 27 (3.70%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	1	1	0
Photosensitivity reaction			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Renal and urinary disorders			
Proteinuria			
subjects affected / exposed	4 / 27 (14.81%)	0 / 11 (0.00%)	0 / 2 (0.00%)
occurrences (all)	5	0	0
Urinary bladder haemorrhage			
subjects affected / exposed	3 / 27 (11.11%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	3	1	0
Musculoskeletal and connective tissue disorders			
Arthralgia			
subjects affected / exposed	4 / 27 (14.81%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	7	1	0
Back pain			
subjects affected / exposed	4 / 27 (14.81%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	4	1	0
Musculoskeletal stiffness			

subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	2	0
Neck pain			
subjects affected / exposed	3 / 27 (11.11%)	0 / 11 (0.00%)	0 / 2 (0.00%)
occurrences (all)	3	0	0
Pain in extremity			
subjects affected / exposed	8 / 27 (29.63%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	10	1	0
Infections and infestations			
Abdominal infection			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Bronchitis			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Candidiasis			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Clostridium difficile colitis			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Conjunctivitis			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Gastrointestinal infection			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Catheter related infection			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Gingivitis			
subjects affected / exposed	1 / 27 (3.70%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	1	1	0
Influenza			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0

Lice infestation			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Otitis media			
subjects affected / exposed	3 / 27 (11.11%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	3	1	0
Pneumonia			
subjects affected / exposed	2 / 27 (7.41%)	0 / 11 (0.00%)	0 / 2 (0.00%)
occurrences (all)	2	0	0
Rhinitis			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Sepsis			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Sinusitis			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0
Urinary tract infection			
subjects affected / exposed	2 / 27 (7.41%)	0 / 11 (0.00%)	0 / 2 (0.00%)
occurrences (all)	2	0	0
Upper respiratory tract infection			
subjects affected / exposed	1 / 27 (3.70%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	1	1	0
Metabolism and nutrition disorders			
Decreased appetite			
subjects affected / exposed	3 / 27 (11.11%)	3 / 11 (27.27%)	0 / 2 (0.00%)
occurrences (all)	3	4	0
Dehydration			
subjects affected / exposed	3 / 27 (11.11%)	2 / 11 (18.18%)	0 / 2 (0.00%)
occurrences (all)	3	2	0
Hyperglycaemia			
subjects affected / exposed	8 / 27 (29.63%)	5 / 11 (45.45%)	1 / 2 (50.00%)
occurrences (all)	14	11	1
Hyperkalaemia			



subjects affected / exposed	2 / 27 (7.41%)	1 / 11 (9.09%)	1 / 2 (50.00%)
occurrences (all)	3	4	1
Hypermagnesaemia			
subjects affected / exposed	5 / 27 (18.52%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	7	1	0
Hypertriglyceridaemia			
subjects affected / exposed	1 / 27 (3.70%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	2	1	0
Hypoalbuminaemia			
subjects affected / exposed	9 / 27 (33.33%)	4 / 11 (36.36%)	1 / 2 (50.00%)
occurrences (all)	10	9	1
Hypocalcaemia			
subjects affected / exposed	11 / 27 (40.74%)	5 / 11 (45.45%)	1 / 2 (50.00%)
occurrences (all)	16	6	1
Hypoglycaemia			
subjects affected / exposed	1 / 27 (3.70%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	1	1	0
Hypokalaemia			
subjects affected / exposed	8 / 27 (29.63%)	5 / 11 (45.45%)	0 / 2 (0.00%)
occurrences (all)	8	6	0
Hypomagnesaemia			
subjects affected / exposed	3 / 27 (11.11%)	3 / 11 (27.27%)	0 / 2 (0.00%)
occurrences (all)	6	3	0
Hyponatraemia			
subjects affected / exposed	11 / 27 (40.74%)	1 / 11 (9.09%)	1 / 2 (50.00%)
occurrences (all)	14	4	1
Hypophosphataemia			
subjects affected / exposed	9 / 27 (33.33%)	3 / 11 (27.27%)	0 / 2 (0.00%)
occurrences (all)	9	7	0
Metabolic alkalosis			
subjects affected / exposed	0 / 27 (0.00%)	1 / 11 (9.09%)	0 / 2 (0.00%)
occurrences (all)	0	1	0

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
12 June 2006	The purpose of this amendment was to update Section 11.4, "Dose escalation and determination of MTD in Ph+ leukemia subjects," which was incorrectly revised during protocol development, and to include the most recent Comprehensive Adverse Event and Potential Risks (CAEPR) list (Version 2.0, dated 29-Mar-2006) for dasatinib.
22 October 2006	This amendment included various clarifications and administrative changes. The significant revisions were: • As solid tumor acquisition will not be pursued in this study, this secondary study aim was removed. • Timing guidelines for blood transfusions were added. • The renal function criteria were updated to use those developed by COG's Developmental Therapeutics Committee. • The liver function eligibility criterion for ALT was changed from < 5xULN to < 110 U/L, and the ULN was established as 45 U/L. • Included PK sampling timepoints for subjects weighing < 10 kg. • The pharmacy section was updated to include the most recently COG Pharmacy Committee-approved monograph for Intrathecal Triple.

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported