



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 |
|-----------------------|-----------|

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:

Results analysis stage

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

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

Notes:

General information about the trial

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.

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.

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 |

Notes:

Population of trial subjects

Subjects enrolled per country

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

Notes:

Subjects enrolled per age group

| | |
|---|----|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 23 |
| Adolescents (12-17 years) | 15 |
| Adults (18-64 years) | 2 |
| From 65 to 84 years | 0 |

| | |
|-------------------|---|
| 85 years and over | 0 |
|-------------------|---|

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 |
|------------------------------|-----|

| | |
|------------------|------------------------|
| Arm title | Solid Tumor, pediatric |
|------------------|------------------------|

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/m²/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/m²/dose BID, Dose level 2 had a dose of 65 mg/m²/dose BID, Dose level 3 had a dose of 85 mg/m²/dose BID, and Dose level 4 had a dose of 110 mg/m²/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/m² 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/m² BID, dose level 2 was 65 mg/m² BID, dose level 3 was 85 mg/m² BID, and dose level 4 was 110 mg/m² BID. If MTD was exceeded at the first dose level, then the subsequent cohort of subjects were treated with 40 mg/m² 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

| | |
|------------------|---------------------|
| Arm title | Leukemia, pediatric |
|------------------|---------------------|

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/m²/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/m²/dose BID, Dose level 2 had a dose of 65 mg/m²/dose BID, Dose level 3 had a dose of 85 mg/m²/dose BID, and Dose level 4 had a dose of 110 mg/m²/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/m² twice daily (BID). Subjects in this stratum dose-escalated one dose below the one under study in solid tumors subjects. If the 50 mg/m² BID dose was not tolerated in a full cohort of refractory Ph+ leukemia subjects, then the dose was de-escalated to 40 mg/m² 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

| | |
|------------------|--------------------|
| Arm title | Solid tumor, adult |
|------------------|--------------------|

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/m²/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/m²/dose BID, Dose level 2 had a dose of 65 mg/m²/dose BID, Dose level 3 had a dose of 85 mg/m²/dose BID, and Dose level 4 had a dose of 110 mg/m²/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/m² 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/m² BID, dose level 2 was 65 mg/m² BID, dose level 3 was 85 mg/m² BID, and dose level 4 was 110 mg/m² BID. If MTD was exceeded at the first dose level, then the subsequent cohort of subjects were treated with 40 mg/m² 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

| Number of subjects in period 1 | Solid Tumor, pediatric | Leukemia, pediatric | Solid tumor, adult |
|---|-------------------------------|----------------------------|---------------------------|
| 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 ² /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 ² /dose BID, Dose level 2 had a dose of 65 mg/m ² /dose BID, Dose level 3 had a dose of 85 mg/m ² /dose BID, and Dose level 4 had a dose of 110 mg/m ² /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 ² /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 ² /dose BID, Dose level 2 had a dose of 65 mg/m ² /dose BID, Dose level 3 had a dose of 85 mg/m ² /dose BID, and Dose level 4 had a dose of 110 mg/m ² /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 ² /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 ² /dose BID, Dose level 2 had a dose of 65 mg/m ² /dose BID, Dose level 3 had a dose of 85 mg/m ² /dose BID, and Dose level 4 had a dose of 110 mg/m ² /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 |

| Reporting group values | 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 ² /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 ² /dose BID, Dose level 2 had a dose of 65 mg/m ² /dose BID, Dose level 3 had a dose of 85 mg/m ² /dose BID, and Dose level 4 had a dose of 110 mg/m ² /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 ² /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 ² /dose BID, Dose level 2 had a dose of 65 mg/m ² /dose BID, Dose level 3 had a dose of 85 mg/m ² /dose BID, and Dose level 4 had a dose of 110 mg/m ² /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 ² /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 ² /dose BID, Dose level 2 had a dose of 65 mg/m ² /dose BID, Dose level 3 had a dose of 85 mg/m ² /dose BID, and Dose level 4 had a dose of 110 mg/m ² /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) ^[1] |
| 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) ^[2] |
|-----------------|--|

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 |
|----------------|---------|

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 |
|-----------------|------------|

Dictionary used

| | |
|-----------------|--------|
| Dictionary name | MedDRA |
|-----------------|--------|

| | |
|--------------------|------|
| Dictionary version | 19.0 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|--------------------------|
| Reporting group title | Solid Tumors (pediatric) |
|-----------------------|--------------------------|

Reporting group description:

Solid Tumors

| | |
|-----------------------|----------|
| Reporting group title | Leukemia |
|-----------------------|----------|

Reporting group description:

Leukemia

| | |
|-----------------------|----------------------|
| Reporting group title | Solid Tumors (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/m²/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/m²/dose BID, Dose level 2 had a dose of 65 mg/m²/dose BID, Dose level 3 had a dose of 85 mg/m²/dose BID, and Dose level 4 had a dose of 110 mg/m²/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 |
| Investigations | | | |
| 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 |
| Nervous system disorders | | | |
| 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 |
| Blood and lymphatic system disorders | | | |
| 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 %

| Non-serious adverse events | Solid Tumors (pediatric) | Leukemia | Solid Tumors (adult) |
|---|-------------------------------------|-------------------|-----------------------------|
| 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:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported