



Clinical trial results:

Evaluation of the impact of remission induction chemotherapy prior to allogeneic stem cell transplantation in relapsed and poor-response patients with AML

Summary

| | |
|--------------------------|----------------|
| EudraCT number | 2014-003124-44 |
| Trial protocol | DE |
| Global end of trial date | 05 April 2022 |

Results information

| | |
|--------------------------------|--------------|
| Result version number | v1 (current) |
| This version publication date | 13 July 2024 |
| First version publication date | 13 July 2024 |

Trial information

Trial identification

| | |
|-----------------------|------------|
| Sponsor protocol code | DKMS-14-01 |
|-----------------------|------------|

Additional study identifiers

| | |
|------------------------------------|---------------------------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT02461537 |
| WHO universal trial number (UTN) | - |
| Other trial identifiers | clinicaltrials.gov: NCT02461537 |

Notes:

Sponsors

| | |
|------------------------------|---|
| Sponsor organisation name | DKMS Group gGmbH |
| Sponsor organisation address | Kressbach 1, Tuebingen, Germany, 72072 |
| Public contact | CTU Study Manager, DKMS Group gGmbH, 0049 3512107980, etal3asap@dkms.de |
| Scientific contact | CTU Study Manager, DKMS Group gGmbH, 0049 3512107980, etal3asap@dkms.de |

Notes:

Paediatric regulatory details

| | |
|--|----|
| Is trial part of an agreed paediatric investigation plan (PIP) | No |
| Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial? | No |
| Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial? | No |

Notes:

Results analysis stage

| | |
|--|---------------|
| Analysis stage | Final |
| Date of interim/final analysis | 19 July 2022 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 05 April 2022 |
| Global end of trial reached? | Yes |
| Global end of trial date | 05 April 2022 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

The objective of this trial is to compare outcome of two treatment strategies for patients with high-risk AML who failed to achieve or maintain a complete remission with standard therapy.

Protection of trial subjects:

All investigations are clinical standard diagnostic procedures, recommended in diagnostic and treatment guidelines.

Background therapy: -

Evidence for comparator: -

| | |
|---|---------------------|
| Actual start date of recruitment | 17 September 2015 |
| Long term follow-up planned | Yes |
| Long term follow-up rationale | Scientific research |
| Long term follow-up duration | 2 Years |
| Independent data monitoring committee (IDMC) involvement? | Yes |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|--------------|
| Country: Number of subjects enrolled | Germany: 281 |
| Worldwide total number of subjects | 281 |
| EEA total number of subjects | 281 |

Notes:

Subjects enrolled per age group

| | |
|---|-----|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 0 |
| Adolescents (12-17 years) | 0 |
| Adults (18-64 years) | 190 |
| From 65 to 84 years | 91 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details:

No central screening process was implemented. Only patients who fulfill all eligibility criteria can be enrolled in the trial.

Period 1

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

Arms

| | |
|------------------------------|-----|
| Are arms mutually exclusive? | Yes |
|------------------------------|-----|

| | |
|------------------|------|
| Arm title | DISC |
|------------------|------|

Arm description:

Disease Control Strategy: The DISC arm aims at disease-monitoring and control until start of the conditioning regimen prior to transplantation. The aim is not to induce a remission but to prevent complications from AML with the least toxic approach. Disease-monitoring without anti-leukemic therapy ("Watch and wait") is the preferred approach except for those patients with rapidly proliferating AML (see definitions). Transplantation should be scheduled as soon as possible. Pharmacologic options aimed at disease control in patients with rapidly proliferating AML comprise low-dose AraC (LDAC) or single-dose mitoxantrone.

| | |
|--|---|
| Arm type | Experimental |
| Investigational medicinal product name | Cytarabin |
| Investigational medicinal product code | SUB06880MIG |
| Other name | ARA-cell |
| Pharmaceutical forms | Concentrate for solution for injection/infusion |
| Routes of administration | Injection |

Dosage and administration details:

LDAC: cytarabine 20 mg/ m² s.c. once a day for 10 days

| | |
|--|---------------------------------|
| Investigational medicinal product name | Mitoxantrone |
| Investigational medicinal product code | SUB03309MIG |
| Other name | |
| Pharmaceutical forms | Solution for injection/infusion |
| Routes of administration | Infusion |

Dosage and administration details:

Mitoxantrone 10 mg/ m² i.v. given as single intravenous infusion

| | |
|------------------|------|
| Arm title | RIST |
|------------------|------|

Arm description:

The remission-induction strategy encompasses the administration of aggressive induction chemotherapy (HAM) and remission control after hematopoietic recovery.

| | |
|--|---|
| Arm type | Active comparator |
| Investigational medicinal product name | Cytarabin |
| Investigational medicinal product code | SUB06880MIG |
| Other name | ARA-cell |
| Pharmaceutical forms | Concentrate and solvent for solution for injection/infusion |
| Routes of administration | Infusion |

Dosage and administration details:

Patients ≤ 60y: 3 g/m² over 3h every 12 hours on 3 consecutive days

Patients > 60y: 1 g/m² over 3h every 12 hours on 3 consecutive days

| | |
|--|---------------------------------|
| Investigational medicinal product name | Mitoxantrone |
| Investigational medicinal product code | SUB03309MIG |
| Other name | |
| Pharmaceutical forms | Solution for injection/infusion |
| Routes of administration | Infusion |

Dosage and administration details:

Patients ≤60y: 10 mg/m² on 3 consecutive days starting at the last day of Cytarabin administration

Patients >60y: 10 mg/m² on 3 consecutive days starting at the last day of Cytarabin administration

| Number of subjects in period 1 | DISC | RIST |
|---------------------------------------|------|------|
| Started | 140 | 141 |
| Completed | 139 | 137 |
| Not completed | 1 | 4 |
| Consent withdrawn by subject | 1 | 1 |
| Protocol deviation | - | 3 |

Baseline characteristics

Reporting groups

| | |
|-----------------------|------|
| Reporting group title | DISC |
|-----------------------|------|

Reporting group description:

Disease Control Strategy: The DISC arm aims at disease-monitoring and control until start of the conditioning regimen prior to transplantation. The aim is not to induce a remission but to prevent complications from AML with the least toxic approach. Disease-monitoring without anti-leukemic therapy ("Watch and wait") is the preferred approach except for those patients with rapidly proliferating AML (see definitions). Transplantation should be scheduled as soon as possible. Pharmacologic options aimed at disease control in patients with rapidly proliferating AML comprise low-dose AraC (LDAC) or single-dose mitoxantrone.

| | |
|-----------------------|------|
| Reporting group title | RIST |
|-----------------------|------|

Reporting group description:

The remission-induction strategy encompasses the administration of aggressive induction chemotherapy (HAM) and remission control after hematopoietic recovery.

| Reporting group values | DISC | RIST | Total |
|---------------------------------------|----------|----------|-------|
| Number of subjects | 140 | 141 | 281 |
| Age categorical Units: Subjects | | | |
| Adults (≥ 18y) | 140 | 141 | 281 |
| Age continuous Units: years | | | |
| median | 61 | 61 | |
| full range (min-max) | 18 to 75 | 19 to 74 | - |
| Gender categorical Units: Subjects | | | |
| Female | 64 | 61 | 125 |
| Male | 76 | 80 | 156 |

Subject analysis sets

| | |
|----------------------------|----------------------------|
| Subject analysis set title | Intent-to-Treat Population |
|----------------------------|----------------------------|

| | |
|---------------------------|--------------------|
| Subject analysis set type | Intention-to-treat |
|---------------------------|--------------------|

Subject analysis set description:

The intention-to-treat (ITT) population consists of all randomized patients who did not withdraw their informed consent or who violated inclusion-exclusion criteria of trial protocol version 6.0. This population was defined also as full analysis set (FAS). The ITT population defined the primary efficacy population. Patients were analyzed in ITT as randomized.

| | |
|----------------------------|-------------------------|
| Subject analysis set title | Per-Protocol Population |
|----------------------------|-------------------------|

| | |
|---------------------------|--------------|
| Subject analysis set type | Per protocol |
|---------------------------|--------------|

Subject analysis set description:

The population for the per protocol primary efficacy analysis (PP population) consisted of patients in the FAS who received the initial treatment to which they were randomized, and received the first dose of Cytarabine in RIST arm in line with protocol, or received the first day of study intervention (including watch and wait) in DisC arm.

| Reporting group values | Intent-to-Treat Population | Per-Protocol Population | |
|------------------------|----------------------------|-------------------------|--|
| Number of subjects | 276 | 272 | |

| | | | |
|-----------------------|----------|----------|--|
| Age categorical | | | |
| Units: Subjects | | | |
| Adults ($\geq 18y$) | 276 | 272 | |
| Age continuous | | | |
| Units: years | | | |
| median | 61 | 61 | |
| full range (min-max) | 18 to 75 | 18 to 75 | |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 121 | 117 | |
| Male | 155 | 146 | |

End points

End points reporting groups

| | |
|-----------------------|------|
| Reporting group title | DISC |
|-----------------------|------|

Reporting group description:

Disease Control Strategy: The DISC arm aims at disease-monitoring and control until start of the conditioning regimen prior to transplantation. The aim is not to induce a remission but to prevent complications from AML with the least toxic approach. Disease-monitoring without anti-leukemic therapy ("Watch and wait") is the preferred approach except for those patients with rapidly proliferating AML (see definitions). Transplantation should be scheduled as soon as possible. Pharmacologic options aimed at disease control in patients with rapidly proliferating AML comprise low-dose AraC (LDAC) or single-dose mitoxantrone.

| | |
|-----------------------|------|
| Reporting group title | RIST |
|-----------------------|------|

Reporting group description:

The remission-induction strategy encompasses the administration of aggressive induction chemotherapy (HAM) and remission control after hematopoietic recovery.

| | |
|----------------------------|----------------------------|
| Subject analysis set title | Intent-to-Treat Population |
|----------------------------|----------------------------|

| | |
|---------------------------|--------------------|
| Subject analysis set type | Intention-to-treat |
|---------------------------|--------------------|

Subject analysis set description:

The intention-to-treat (ITT) population consists of all randomized patients who did not withdraw their informed consent or who violated inclusion-exclusion criteria of trial protocol version 6.0. This population was defined also as full analysis set (FAS). The ITT population defined the primary efficacy population. Patients were analyzed in ITT as randomized.

| | |
|----------------------------|-------------------------|
| Subject analysis set title | Per-Protocol Population |
|----------------------------|-------------------------|

| | |
|---------------------------|--------------|
| Subject analysis set type | Per protocol |
|---------------------------|--------------|

Subject analysis set description:

The population for the per protocol primary efficacy analysis (PP population) consisted of patients in the FAS who received the initial treatment to which they were randomized, and received the first dose of Cytarabine in RIST arm in line with protocol, or received the first day of study intervention (including watch and wait) in DisC arm.

Primary: Rate of treatment success

| | |
|-----------------|---------------------------|
| End point title | Rate of treatment success |
|-----------------|---------------------------|

End point description:

| | |
|----------------|---------|
| End point type | Primary |
|----------------|---------|

End point timeframe:

defined as documented complete remission on day 56 after allogeneic HSCT

| End point values | DISC | RIST | Intent-to-Treat Population | Per-Protocol Population |
|-----------------------------|-----------------|-----------------|----------------------------|-------------------------|
| Subject group type | Reporting group | Reporting group | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 139 | 137 | 276 | 272 |
| Units: N success | | | | |
| number (not applicable) | 116 | 111 | 227 | 225 |

Statistical analyses

| | |
|---|---------------------------|
| Statistical analysis title | Primary efficacy analysis |
| Statistical analysis description: | |
| Dichotomous success rate | |
| Comparison groups | RIST v DISC |
| Number of subjects included in analysis | 276 |
| Analysis specification | Pre-specified |
| Analysis type | non-inferiority |
| P-value | = 0.054 |
| Method | Farrington and Manning |

Adverse events

Adverse events information

Timeframe for reporting adverse events:

within 28 days after the end of study treatment, or without treatment until start of subsequent anti-leukemic treatment (start of bridging therapy)/ start of the conditioning regimen

| | |
|-----------------|----------------|
| Assessment type | Non-systematic |
|-----------------|----------------|

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 24.0 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|------|
| Reporting group title | DISC |
|-----------------------|------|

Reporting group description:

Disease Control Strategy: The DISC arm aims at disease-monitoring and control until start of the conditioning regimen prior to transplantation. The aim is not to induce a remission but to prevent complications from AML with the least toxic approach. Disease-monitoring without anti-leukemic therapy ("Watch and wait") is the preferred approach except for those patients with rapidly proliferating AML (see definitions). Transplantation should be scheduled as soon as possible. Pharmacologic options aimed at disease control in patients with rapidly proliferating AML comprise low-dose AraC (LDAC) or single-dose mitoxantrone.

| | |
|-----------------------|------|
| Reporting group title | RIST |
|-----------------------|------|

Reporting group description:

The remission-induction strategy encompasses the administration of aggressive induction chemotherapy (HAM) and remission control after hematopoietic recovery.

| Serious adverse events | DISC | RIST | |
|---|-------------------|-------------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 22 / 139 (15.83%) | 19 / 137 (13.87%) | |
| number of deaths (all causes) | 66 | 58 | |
| number of deaths resulting from adverse events | | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Acute myeloid leukaemia | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | |
| Breast cancer | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Tongue neoplasm malignant stage | | | |

| | | | |
|--|-----------------|-----------------|--|
| unspecified | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 0 / 139 (0.00%) | 1 / 137 (0.73%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Injury, poisoning and procedural complications | | | |
| Subdural haemorrhage | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 0 / 139 (0.00%) | 1 / 137 (0.73%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vascular disorders | | | |
| Shock haemorrhagic | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Traumatic intracranial haemorrhage | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 0 / 139 (0.00%) | 1 / 137 (0.73%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 1 / 1 | |
| Cardiac disorders | | | |
| Myocardial infarction | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 0 / 139 (0.00%) | 1 / 137 (0.73%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Nervous system disorders | | | |
| Cerebral ischaemia | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

| | | | |
|--|---|---|--|
| Blood and lymphatic system disorders Febrile neutropenia alternative assessment type: Systematic subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 2 / 139 (1.44%) 1 / 2 0 / 0 | 0 / 137 (0.00%) 0 / 0 0 / 0 | |
| General disorders and administration site conditions Administration site extravasation alternative assessment type: Systematic subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 0 / 139 (0.00%) 0 / 0 0 / 0 | 1 / 137 (0.73%) 1 / 1 0 / 0 | |
| Gastrointestinal disorders Anal fissure haemorrhage alternative assessment type: Systematic subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 1 / 139 (0.72%) 0 / 1 0 / 0 | 0 / 137 (0.00%) 0 / 0 0 / 0 | |
| Neutropenic colitis alternative assessment type: Systematic subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 1 / 139 (0.72%) 0 / 1 0 / 0 | 1 / 137 (0.73%) 1 / 1 0 / 0 | |
| Proctitis alternative assessment type: Systematic subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 1 / 139 (0.72%) 0 / 1 0 / 0 | 0 / 137 (0.00%) 0 / 0 0 / 0 | |
| Stomatitis haemorrhagic alternative assessment type: Systematic subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 1 / 139 (0.72%) 1 / 1 0 / 0 | 0 / 137 (0.00%) 0 / 0 0 / 0 | |
| Vomiting | | | |

| | | | |
|--|-----------------|-----------------|--|
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 0 / 139 (0.00%) | 1 / 137 (0.73%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hepatobiliary disorders | | | |
| Cholecystitis | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 0 / 139 (0.00%) | 1 / 137 (0.73%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Venoocclusive liver disease | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Epistaxis | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 0 / 139 (0.00%) | 1 / 137 (0.73%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pneumonitis | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Musculoskeletal and connective tissue disorders | | | |
| Back pain | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infections and infestations | | | |

| | | | |
|---|-----------------|-----------------|--|
| Bronchopulmonary aspergillosis alternative assessment type: Systematic | | | |
| subjects affected / exposed | 0 / 139 (0.00%) | 1 / 137 (0.73%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cellulitis alternative assessment type: Systematic | | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Clostridial sepsis alternative assessment type: Systematic | | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cytomegalovirus infection reactivation alternative assessment type: Systematic | | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Diverticulitis alternative assessment type: Systematic | | | |
| subjects affected / exposed | 0 / 139 (0.00%) | 1 / 137 (0.73%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Febrile infection alternative assessment type: Systematic | | | |
| subjects affected / exposed | 2 / 139 (1.44%) | 1 / 137 (0.73%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hepatic infection alternative assessment type: Systematic | | | |

| | | | |
|---|-----------------|-----------------|--|
| subjects affected / exposed | 0 / 139 (0.00%) | 1 / 137 (0.73%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Herpes zoster | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infection | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 0 / 139 (0.00%) | 1 / 137 (0.73%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infection in an immunocompromised host | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pneumocystis jirovecii pneumonia | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 0 / 139 (0.00%) | 1 / 137 (0.73%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pneumonia | | | |
| alternative assessment type: Systematic | | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 3 / 137 (2.19%) | |
| occurrences causally related to treatment / all | 1 / 1 | 2 / 3 | |
| deaths causally related to treatment / all | 0 / 0 | 1 / 1 | |
| Postoperative wound infection | | | |
| alternative assessment type: Systematic | | | |

| | | |
|---|-----------------|-----------------|
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Rectal abscess | | |
| alternative assessment type: Systematic | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Respiratory tract infection | | |
| alternative assessment type: Systematic | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Sepsis | | |
| alternative assessment type: Systematic | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 3 / 137 (2.19%) |
| occurrences causally related to treatment / all | 1 / 1 | 3 / 3 |
| deaths causally related to treatment / all | 1 / 1 | 0 / 0 |
| Septic shock | | |
| alternative assessment type: Systematic | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |
| Urosepsis | | |
| alternative assessment type: Systematic | | |
| subjects affected / exposed | 1 / 139 (0.72%) | 0 / 137 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 |

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

| Non-serious adverse events | DISC | RIST | |
|---|---|-------------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 28 / 139 (20.14%) | 99 / 137 (72.26%) | |
| Cardiac disorders | | | |
| Cardiac disorder | Additional description: CTCAE Grade 3-5 | | |
| subjects affected / exposed | 0 / 139 (0.00%) | 11 / 137 (8.03%) | |
| occurrences (all) | 0 | 12 | |
| Infections and infestations | | | |
| Infection | Additional description: CTCAE Grade 3-5 | | |
| subjects affected / exposed | 22 / 139 (15.83%) | 78 / 137 (56.93%) | |
| occurrences (all) | 27 | 107 | |
| Metabolism and nutrition disorders | | | |
| Metabolic disorder | Additional description: CTCAE Grade 3-5 | | |
| subjects affected / exposed | 6 / 139 (4.32%) | 10 / 137 (7.30%) | |
| occurrences (all) | 6 | 13 | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|------------------|---|
| 17 April 2015 | Non-substantial: Mitoxantrone dosing modification, instructions detailed early induction response, serum chemistry assessment in bridging therapy visit, transplant report and other assessments added. |
| 02 July 2015 | Substantial: Changes in the CTA Form submitted to the authorities to indicate a change in the cytarabine concentration to be used in order to make reconstitution of the cytarabine solution feasible for the pharmacy service. |
| 26 February 2016 | Substantial: Addition of inclusion criteria for the poor responder stratum and modification of the potential donor matching grade for eligibility, ancillary research implemented, safety consideration that cytopenia reflects underlying disease, information added on how to document and report pregnancy |
| 14 March 2017 | Substantial: Rewording of an exclusion to an inclusion criterion, information on how to deal with subjects that participate at more than one trial site. |
| 24 May 2019 | Substantial: Addition of inclusion criteria for poor responders. |
| 10 February 2021 | Non-substantial: Recruitment prolongation. |
| 11 March 2022 | Substantial: Adoption of timelines for final analysis – new study termination criterion. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported

Online references

<http://www.ncbi.nlm.nih.gov/pubmed/38583455>