



## Clinical trial results:

### An open-label, multicenter study of INC424 monotherapy or in combination with azacitidine for patients with post-myeloproliferative disorders (MPD) – AML or with CMML

#### Summary

|                          |                  |
|--------------------------|------------------|
| EudraCT number           | 2014-000346-30   |
| Trial protocol           | DE               |
| Global end of trial date | 28 November 2018 |

#### Results information

|                                |                   |
|--------------------------------|-------------------|
| Result version number          | v1 (current)      |
| This version publication date  | 23 September 2021 |
| First version publication date | 23 September 2021 |

#### Trial information

##### Trial identification

|                       |               |
|-----------------------|---------------|
| Sponsor protocol code | CINC424XDE04T |
|-----------------------|---------------|

##### Additional study identifiers

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

Notes:

##### Sponsors

|                              |   |
|------------------------------|---|
| Sponsor organisation name    | University of Leipzig   |
| Sponsor organisation address | Ritterstrasse 26, Leipzig, Germany, D 04109                             |
| Public contact               | Studiensekretariat Hämatologie, Universität Leipzig, 0049 34197 13 130, |
| Scientific contact           | Studiensekretariat Hämatologie, Universität Leipzig, 0049 34197 13 130, |

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:

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**Results analysis stage**

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|  |                  |
|--|------------------|
| Analysis stage                                       | Final            |
| Date of interim/final analysis                       | 28 November 2018 |
| Is this the analysis of the primary completion data? | Yes              |
| Primary completion date                              | 28 February 2018 |
| Global end of trial reached?                         | Yes              |
| Global end of trial date                             | 28 November 2018 |
| Was the trial ended prematurely?                     | No               |

Notes:

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**General information about the trial**

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Main objective of the trial:

Phase I: Feasibility to administer INC424 alone or in combination with azacitidine on 4 patients.

Phase II: To collect efficacy data on AML secondary to MPN and on CMML either with INC424 alone or in combination with azacitidine.

This phase did not start because phase I was not successful.

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Protection of trial subjects:

prophylactic use of fluoroquinolone and oral antifungal during neutropenia is recommended, broad-spectrum antibiotic if neutropenic fever occurs; if fever persists despite the use of antibiotic, myeloid growth factor is applied at the discretion of the investigator.

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Background therapy:

Standard administration of hydroxyurea

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Evidence for comparator:

low evidence for treatment of newly diagnosed AML with azacitidine, no evidence for combination treatment with azacitidine and ANC2424 of patients with post-myeloproliferative disorders.

|   |                  |
|---|------------------|
| Actual start date of recruitment                          | 03 November 2014 |
| Long term follow-up planned                               | No               |
| Independent data monitoring committee (IDMC) involvement? | Yes              |

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 | Germany: 5 |
| Worldwide total number of subjects   | 5          |
| EEA total number of subjects         | 5          |

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)                    | 0 |
| Adolescents (12-17 years)                | 0 |
| Adults (18-64 years)                     | 3 |
| From 65 to 84 years                      | 2 |
| 85 years and over                        | 0 |

## Subject disposition

### Recruitment

Recruitment details:

FPI on January 15, 2015;  
last patient in on March 27, 2017

### Pre-assignment

Screening details:

Four patients with secondary AML and one patient with CMML were enrolled

### Period 1

|                              |                             |
|------------------------------|-----------------------------|
| Period 1 title               | Phase I (overall period)    |
| Is this the baseline period? | Yes                         |
| Allocation method            | Non-randomised - controlled |
| Blinding used                | Not blinded                 |

### Arms

|                  |         |
|------------------|---------|
| <b>Arm title</b> | Jakvida |
|------------------|---------|

Arm description:

INC 424 in monotherapy or in combination with azacitidine

|  |              |
|--|--------------|
| Arm type                               | Experimental |
| Investigational medicinal product name | Jakavi       |
| Investigational medicinal product code | Ruxolitinib  |
| Other name                             | ANC 424      |
| Pharmaceutical forms                   | Tablet       |
| Routes of administration               | Oral use     |

Dosage and administration details:

following the therapy scheme (Trial Protocol, figure 1)

|  |                       |
|--|-----------------------|
| Investigational medicinal product name | Vidaza                |
| Investigational medicinal product code | Azacitidine           |
| Other name                             |                       |
| Pharmaceutical forms                   | Solution for infusion |
| Routes of administration               | Subcutaneous use      |

Dosage and administration details:

following the therapy scheme (Fig. 1 of the Trial Protocol)

| Number of subjects in period 1 | Jakvida |
|--------------------------------|---------|
| Started                        | 5       |
| Completed                      | 2       |
| Not completed                  | 3       |
| patient was transplanted       | 1       |
| Lack of efficacy               | 2       |

## Baseline characteristics

### Reporting groups

|                       |         |
|-----------------------|---------|
| Reporting group title | Phase I |
|-----------------------|---------|

Reporting group description: -

| Reporting group values                             | Phase I      | Total |  |
|--|--------------|-------|--|
| Number of subjects                                 | 5            | 5     |  |
| Age categorical                                    |              |       |  |
| Units: Subjects                                    |              |       |  |
| In utero   |              | 0     |  |
| Preterm newborn infants (gestational age < 37 wks) |              | 0     |  |
| Newborns (0-27 days)                               |              | 0     |  |
| Infants and toddlers (28 days-23 months)           |              | 0     |  |
| Children (2-11 years)                              |              | 0     |  |
| Adolescents (12-17 years)                          |              | 0     |  |
| Adults (18-64 years)                               |              | 0     |  |
| From 65-84 years                                   |              | 0     |  |
| 85 years and over                                  |              | 0     |  |
| Age continuous                                     |              |       |  |
| Patient age at inclusion                           |              |       |  |
| Units: years                                       |              |       |  |
| median   | 63           |       |  |
| full range (min-max)                               | 32 to 73     | -     |  |
| Gender categorical                                 |              |       |  |
| Sex distribution                                   |              |       |  |
| Units: Subjects                                    |              |       |  |
| Female   | 4            | 4     |  |
| Male   | 1            | 1     |  |
| ECOG score   |              |       |  |
| Units: Subjects                                    |              |       |  |
| Grade 1  | 2            | 2     |  |
| Grade 2  | 2            | 2     |  |
| unknown  | 1            | 1     |  |
| BMI  |              |       |  |
| body mass index                                    |              |       |  |
| Units: kg/m <sup>2</sup>                           |              |       |  |
| median   | 21.7         |       |  |
| full range (min-max)                               | 19.3 to 31.3 | -     |  |

## End points

### End points reporting groups

|   |               |
|---|---------------|
| Reporting group title   | Jakvida       |
| Reporting group description:<br>INC 424 in monotherapy or in combination with azacitidine |               |
| Subject analysis set title  | FAS           |
| Subject analysis set type   | Full analysis |
| Subject analysis set description:<br>Full analysis set                                    |               |

### Primary: Haematological response

|  |  |
|--|--|
| End point title  | Haematological response <sup>[1]</sup> |
| End point description:<br>Response following the IWG response criteria for AML / myelofibrosis |  |
| End point type   | Primary                                |
| End point timeframe:<br>84 days  |  |

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: This is a single arm study. Confirmatory statistics is not applicable.

| End point values                                   | Jakvida         |  |  |  |
|--|-----------------|--|--|--|
| Subject group type                                 | Reporting group |  |  |  |
| Number of subjects analysed                        | 5               |  |  |  |
| Units: Patients                                    |                 |  |  |  |
| Complete remission (CR)                            | 0               |  |  |  |
| Complete remission with incomplete blood count rec | 1               |  |  |  |
| Partial remission (PR)                             | 1               |  |  |  |
| Relapse after CR or CRi                            | 0               |  |  |  |
| Treatment failure                                  | 1               |  |  |  |
| Progressive Disease                                | 1               |  |  |  |
| Clinical improvement                               | 0               |  |  |  |
| Stable disease                                     | 0               |  |  |  |
| Not assessable                                     | 1               |  |  |  |

### Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Screening, baseline

Adverse event reporting additional description:

Toxicities are recorded after each treatment period

|                 |            |
|-----------------|------------|
| Assessment type | Systematic |
|-----------------|------------|

### Dictionary used

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

|                    |      |
|--------------------|------|
| Dictionary version | 20.1 |
|--------------------|------|

### Reporting groups

|                       |         |
|-----------------------|---------|
| Reporting group title | Jakvida |
|-----------------------|---------|

Reporting group description:

Treatment arm

| Serious adverse events  | Jakvida        |  |  |
|---|----------------|--|--|
| Total subjects affected by serious adverse events                   |                |  |  |
| subjects affected / exposed   | 3 / 5 (60.00%) |  |  |
| number of deaths (all causes)                                       | 5              |  |  |
| number of deaths resulting from adverse events                      | 3              |  |  |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                |  |  |
| Malignant neoplasm progression                                      |                |  |  |
| subjects affected / exposed   | 3 / 5 (60.00%) |  |  |
| occurrences causally related to treatment / all                     | 0 / 3          |  |  |
| deaths causally related to treatment / all                          | 0 / 3          |  |  |
| Leukaemia recurrent   |                |  |  |
| subjects affected / exposed   | 1 / 5 (20.00%) |  |  |
| occurrences causally related to treatment / all                     | 0 / 1          |  |  |
| deaths causally related to treatment / all                          | 0 / 0          |  |  |
| Blood and lymphatic system disorders                                |                |  |  |
| Anaemia   |                |  |  |
| subjects affected / exposed   | 1 / 5 (20.00%) |  |  |
| occurrences causally related to treatment / all                     | 1 / 1          |  |  |
| deaths causally related to treatment / all                          | 1 / 1          |  |  |
| Respiratory, thoracic and mediastinal disorders                     |                |  |  |
| Pneumonia   |                |  |  |

|   |                |  |  |
|---|----------------|--|--|
| subjects affected / exposed                     | 1 / 5 (20.00%) |  |  |
| occurrences causally related to treatment / all | 1 / 1          |  |  |
| deaths causally related to treatment / all      | 1 / 1          |  |  |
| Dyspnoea  |                |  |  |
| subjects affected / exposed                     | 1 / 5 (20.00%) |  |  |
| occurrences causally related to treatment / all | 1 / 1          |  |  |
| deaths causally related to treatment / all      | 1 / 1          |  |  |
| Infections and infestations                     |                |  |  |
| Sepsis  |                |  |  |
| alternative assessment type: Non-systematic     |                |  |  |
| subjects affected / exposed                     | 3 / 5 (60.00%) |  |  |
| occurrences causally related to treatment / all | 3 / 3          |  |  |
| deaths causally related to treatment / all      | 3 / 3          |  |  |
| Gastrointestinal bacterial infection            |                |  |  |
| subjects affected / exposed                     | 1 / 5 (20.00%) |  |  |
| occurrences causally related to treatment / all | 1 / 1          |  |  |
| deaths causally related to treatment / all      | 1 / 1          |  |  |
| Septic shock                                    |                |  |  |
| subjects affected / exposed                     | 1 / 5 (20.00%) |  |  |
| occurrences causally related to treatment / all | 1 / 1          |  |  |
| deaths causally related to treatment / all      | 1 / 1          |  |  |
| Multiple organ dysfunction syndrome             |                |  |  |
| subjects affected / exposed                     | 1 / 5 (20.00%) |  |  |
| occurrences causally related to treatment / all | 1 / 1          |  |  |
| deaths causally related to treatment / all      | 1 / 1          |  |  |

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

|   |                 |  |  |
|---|-----------------|--|--|
| <b>Non-serious adverse events</b>                     | Jakvida         |  |  |
| Total subjects affected by non-serious adverse events |                 |  |  |
| subjects affected / exposed                           | 5 / 5 (100.00%) |  |  |
| Investigations  |                 |  |  |
| Alanine aminotransferase increased                    |                 |  |  |

|  |                                   |  |  |
|--|-----------------------------------|--|--|
| subjects affected / exposed                          | 3 / 5 (60.00%)                    |  |  |
| occurrences (all)                                    | 3                                 |  |  |
| Aspartate aminotransferase increased                 |                                   |  |  |
| subjects affected / exposed                          | 3 / 5 (60.00%)                    |  |  |
| occurrences (all)                                    | 3                                 |  |  |
| creatinine increased                                 |                                   |  |  |
| subjects affected / exposed                          | 5 / 5 (100.00%)                   |  |  |
| occurrences (all)                                    | 5                                 |  |  |
| Alkaline phosphatase increased                       |                                   |  |  |
| subjects affected / exposed                          | 4 / 5 (80.00%)                    |  |  |
| occurrences (all)                                    | 4                                 |  |  |
| Blood bilirubin increased                            |                                   |  |  |
| subjects affected / exposed                          | 4 / 5 (80.00%)                    |  |  |
| occurrences (all)                                    | 4                                 |  |  |
| General disorders and administration site conditions |                                   |  |  |
| Fever  |                                   |  |  |
| subjects affected / exposed                          | 4 / 5 (80.00%)                    |  |  |
| occurrences (all)                                    | 4                                 |  |  |
| lower leg edema                                      |                                   |  |  |
| subjects affected / exposed                          | 1 / 5 (20.00%)                    |  |  |
| occurrences (all)                                    | 1                                 |  |  |
| Weight loss  |                                   |  |  |
| subjects affected / exposed                          | 3 / 5 (60.00%)                    |  |  |
| occurrences (all)                                    | 3                                 |  |  |
| Pain sternal   | Additional description: after GMT |  |  |
| subjects affected / exposed                          | 1 / 5 (20.00%)                    |  |  |
| occurrences (all)                                    | 1                                 |  |  |
| Ear and labyrinth disorders                          |                                   |  |  |
| Vertigo  |                                   |  |  |
| subjects affected / exposed                          | 1 / 5 (20.00%)                    |  |  |
| occurrences (all)                                    | 1                                 |  |  |
| Gastrointestinal disorders                           |                                   |  |  |
| Diarrhoea  |                                   |  |  |
| subjects affected / exposed                          | 2 / 5 (40.00%)                    |  |  |
| occurrences (all)                                    | 2                                 |  |  |
| Nausea   |                                   |  |  |

|   |                     |  |  |
|---|---------------------|--|--|
| subjects affected / exposed<br>occurrences (all)  | 3 / 5 (60.00%)<br>3 |  |  |
| Abdominal pain<br>subjects affected / exposed<br>occurrences (all)  | 2 / 5 (40.00%)<br>2 |  |  |
| Respiratory, thoracic and mediastinal disorders<br>Dyspnoea<br>subjects affected / exposed<br>occurrences (all) | 3 / 5 (60.00%)<br>3 |  |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date          | Amendment  |
|---------------|--|
| 27 March 2017 | Substantial changes: <ul style="list-style-type: none"><li>- The deputy of the coordinating investigator, one member of the DMC and the project manager at the ZKS Leipzig - KKS changed.</li><li>- Description of the trial design was changed.</li><li>- Due to prolonged patient recruitment, the expected trial duration is adapted.</li></ul> |

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

Limitations of the trial such as small numbers of subjects analysed or technical problems leading to unreliable data.

The study was terminated because of insufficient patient accrual.  
The trial ended unscheduled in phase I with only 5 patients with incomplete courses.  
Efficacy evaluation was not possible.

Notes: