



Clinical trial results:

A Phase 2, single-masked, multicentre study to evaluate the safety and efficacy of 2 dose levels of THR-317 for the treatment of diabetic macular oedema (DME)

Summary

| | |
|--------------------------|----------------|
| EudraCT number | 2016-002100-25 |
| Trial protocol | HU CZ SK |
| Global end of trial date | 11 April 2018 |

Results information

| | |
|--------------------------------|---------------|
| Result version number | v1 (current) |
| This version publication date | 31 March 2019 |
| First version publication date | 31 March 2019 |

Trial information

Trial identification

| | |
|-----------------------|-------------|
| Sponsor protocol code | THR-317-001 |
|-----------------------|-------------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT03071068 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | ThromboGenics NV |
| Sponsor organisation address | Gaston Geenslaan 1, Leuven, Belgium, 3001 |
| Public contact | Global Clinical Development, ThromboGenics NV, 32 16751310, info@oxurion.com |
| Scientific contact | Global Clinical Development, ThromboGenics NV, 32 16751310, info@oxurion.com |

Notes:

Paediatric regulatory details

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

Notes:

Results analysis stage

| | |
|--|---------------|
| Analysis stage | Final |
| Date of interim/final analysis | 01 June 2018 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 11 April 2018 |
| Global end of trial reached? | Yes |
| Global end of trial date | 11 April 2018 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

To evaluate the safety of 3 intravitreal injections of 2 dose levels of THR-317 (4mg or 8mg) and to assess its efficacy in improving best-corrected visual acuity (BCVA) and reducing central subfield thickness (CST), in subjects with centre-involved DME

Protection of trial subjects:

All study procedures, including the intravitreal injections, were performed by qualified and trained personnel. Only eligible subjects were enrolled in the study and only subjects who did not meet any withdrawal criteria received repeat injections. All subjects were supervised in the immediate post-injection period with appropriate medical treatment readily available. Subjects were followed up for 3 months after the last intravitreal injection. Adverse events were recorded throughout the study period. At each study visit, a full ophthalmic examination and BCVA assessment was performed.

Background therapy: -

Evidence for comparator: -

| | |
|---|------------------|
| Actual start date of recruitment | 22 December 2016 |
| Long term follow-up planned | No |
| Independent data monitoring committee (IDMC) involvement? | No |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|--------------------|
| Country: Number of subjects enrolled | Hungary: 11 |
| Country: Number of subjects enrolled | Slovakia: 18 |
| Country: Number of subjects enrolled | Czech Republic: 20 |
| Worldwide total number of subjects | 49 |
| EEA total number of subjects | 49 |

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) | 22 |
| From 65 to 84 years | 27 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details:

Before enrolment in the study, a Screening Visit took place during which in- and exclusion criteria were checked.

Period 1

| | |
|------------------------------|--------------------------------|
| Period 1 title | Overall Study (overall period) |
| Is this the baseline period? | Yes |
| Allocation method | Randomised - controlled |
| Blinding used | Single blind |
| Roles blinded | Subject |

Arms

| | |
|------------------------------|-------------|
| Are arms mutually exclusive? | Yes |
| Arm title | THR-317 4mg |

Arm description:

3 intravitreal injections of THR-317 4mg approximately 1 month apart

| | |
|--|--|
| Arm type | Experimental |
| Investigational medicinal product name | THR-317 4mg |
| Investigational medicinal product code | THR-317 |
| Other name | |
| Pharmaceutical forms | Concentrate and solvent for solution for injection |
| Routes of administration | Intravitreal use |

Dosage and administration details:

3 intravitreal injections of THR-317 4mg approximately 1 month apart

| | |
|------------------|-------------|
| Arm title | THR-317 8mg |
|------------------|-------------|

Arm description:

3 intravitreal injections of THR-317 8mg approximately 1 month apart

| | |
|--|------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | THR-317 8mg |
| Investigational medicinal product code | THR-317 |
| Other name | |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Intravitreal use |

Dosage and administration details:

3 intravitreal injections of THR-317 8mg approximately 1 month apart

| Number of subjects in period 1 | THR-317 4mg | THR-317 8mg |
|---------------------------------------|-------------|-------------|
| Started | 24 | 25 |
| Completed | 23 | 25 |
| Not completed | 1 | 0 |
| Consent withdrawn by subject | 1 | - |

Baseline characteristics

Reporting groups

| | |
|--|-------------|
| Reporting group title | THR-317 4mg |
| Reporting group description: 3 intravitreal injections of THR-317 4mg approximately 1 month apart | |
| Reporting group title | THR-317 8mg |
| Reporting group description: 3 intravitreal injections of THR-317 8mg approximately 1 month apart | |

| Reporting group values | THR-317 4mg | THR-317 8mg | Total |
|---|-------------|-------------|-------|
| Number of subjects | 24 | 25 | 49 |
| 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 | | | |
| Units: years | | | |
| arithmetic mean | 62.8 | 65.8 | |
| standard deviation | ± 8.40 | ± 8.61 | - |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 12 | 14 | 26 |
| Male | 12 | 11 | 23 |

End points

End points reporting groups

| | |
|------------------------------|--|
| Reporting group title | THR-317 4mg |
| Reporting group description: | 3 intravitreal injections of THR-317 4mg approximately 1 month apart |
| Reporting group title | THR-317 8mg |
| Reporting group description: | 3 intravitreal injections of THR-317 8mg approximately 1 month apart |

Primary: Incidence of acute (up to the 7 day follow-up visit) ocular (serious) adverse events ([S]AEs) in the study eye, after each injection and across injections per subject

| | |
|------------------------|---|
| End point title | Incidence of acute (up to the 7 day follow-up visit) ocular (serious) adverse events ([S]AEs) in the study eye, after each injection and across injections per subject ^[1] |
| End point description: | |
| End point type | Primary |
| End point timeframe: | up to 7-day follow-up visit after each injection |

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: The scope of the primary endpoint was descriptive, no statistical hypothesis test was performed.

| End point values | THR-317 4mg | THR-317 8mg | | |
|-----------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 24 | 25 | | |
| Units: subjects | | | | |
| after the first injection | 0 | 1 | | |
| after the second injection | 3 | 1 | | |
| after the third injection | 0 | 2 | | |
| across injections | 3 | 4 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Incidence of systemic and ocular (S)AEs up to the 30 day follow-up visit, after each injection and across injections per subject

| | |
|------------------------|--|
| End point title | Incidence of systemic and ocular (S)AEs up to the 30 day follow-up visit, after each injection and across injections per subject |
| End point description: | |
| End point type | Secondary |

End point timeframe:
up to 30-day follow-up visit after each injection

| End point values | THR-317 4mg | THR-317 8mg | | |
|-----------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 24 | 25 | | |
| Units: subjects | | | | |
| after the first injection | 3 | 3 | | |
| after the second injection | 5 | 3 | | |
| after the third injection | 3 | 4 | | |
| across injections | 9 | 9 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Incidence of systemic and ocular (S)AEs from first injection up to Day 90 and up to Day 150

| | |
|-----------------|---|
| End point title | Incidence of systemic and ocular (S)AEs from first injection up to Day 90 and up to Day 150 |
|-----------------|---|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:

from first injection, up to Day 90 and up to Day 150

| End point values | THR-317 4mg | THR-317 8mg | | |
|------------------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 24 | 25 | | |
| Units: subjects | | | | |
| from first injection up to Day 90 | 9 | 9 | | |
| from first injection up to Day 150 | 9 | 11 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with a loss of ≥ 15 , ≥ 10 or ≥ 5 ETDRS letters in BCVA from baseline by study visit

| | |
|-----------------|--|
| End point title | Number of subjects with a loss of ≥ 15 , ≥ 10 or ≥ 5 ETDRS letters in BCVA from baseline by study visit |
|-----------------|--|

End point description:

End point type Secondary

End point timeframe:
at Day 150

| End point values | THR-317 4mg | THR-317 8mg | | |
|---|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 23 | 25 | | |
| Units: subjects | | | | |
| loss of ≥ 15 ETDRS letters in BCVA from Baseline | 0 | 1 | | |
| loss of ≥ 10 ETDRS letters in BCVA from Baseline | 1 | 1 | | |
| loss of ≥ 5 ETDRS letters in BCVA from Baseline | 2 | 3 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with an acute loss (up to the 7 day follow-up visit) of ≥ 15 , ≥ 10 or ≥ 5 ETDRS letters in BCVA after the first injection

End point title Number of subjects with an acute loss (up to the 7 day follow-up visit) of ≥ 15 , ≥ 10 or ≥ 5 ETDRS letters in BCVA after the first injection

End point description:

End point type Secondary

End point timeframe:
after the first injection

| End point values | THR-317 4mg | THR-317 8mg | | |
|---|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 24 | 25 | | |
| Units: subjects | | | | |
| acute loss of ≥ 15 ETDRS letters in BCVA | 0 | 0 | | |
| acute loss of ≥ 10 ETDRS letters in BCVA | 0 | 0 | | |
| acute loss of ≥ 5 ETDRS letters in BCVA | 0 | 1 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with an acute loss (up to the 7 day follow-up visit) of ≥ 15 , ≥ 10 or ≥ 5 ETDRS letters in BCVA after the second injection

| | |
|-----------------|---|
| End point title | Number of subjects with an acute loss (up to the 7 day follow-up visit) of ≥ 15 , ≥ 10 or ≥ 5 ETDRS letters in BCVA after the second injection |
|-----------------|---|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:
after the second injection

| End point values | THR-317 4mg | THR-317 8mg | | |
|---|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 23 | 25 | | |
| Units: subjects | | | | |
| acute loss of ≥ 15 ETDRS letters in BCVA | 0 | 0 | | |
| acute loss of ≥ 10 ETDRS letters in BCVA | 0 | 0 | | |
| acute loss of ≥ 5 ETDRS letters in BCVA | 1 | 3 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with an acute loss (up to the 7 day follow-up visit) of ≥ 15 , ≥ 10 or ≥ 5 ETDRS letters in BCVA after the third injection

| | |
|-----------------|--|
| End point title | Number of subjects with an acute loss (up to the 7 day follow-up visit) of ≥ 15 , ≥ 10 or ≥ 5 ETDRS letters in BCVA after the third injection |
|-----------------|--|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:
after the third injection

| End point values | THR-317 4mg | THR-317 8mg | | |
|---|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 23 | 25 | | |
| Units: subjects | | | | |
| acute loss of ≥ 15 ETDRS letters in BCVA | 0 | 0 | | |
| acute loss of ≥ 10 ETDRS letters in BCVA | 0 | 0 | | |
| acute loss of ≥ 5 ETDRS letters in BCVA | 1 | 4 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects with a ≥ 15 ETDRS letters gain in BCVA from baseline or ≥ 83 ETDRS letters, by study visit

| | |
|-----------------|---|
| End point title | Number of subjects with a ≥ 15 ETDRS letters gain in BCVA from baseline or ≥ 83 ETDRS letters, by study visit |
|-----------------|---|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:
at Day 90

| End point values | THR-317 4mg | THR-317 8mg | | |
|-----------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 23 | 25 | | |
| Units: subjects | 1 | 7 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Mean change from baseline in BCVA, by study visit

| | |
|-----------------|---|
| End point title | Mean change from baseline in BCVA, by study visit |
|-----------------|---|

End point description:

| | |
|----------------|-----------|
| End point type | Secondary |
|----------------|-----------|

End point timeframe:
at Day 90

| End point values | THR-317 4mg | THR-317 8mg | | |
|---|------------------|-------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 23 | 25 | | |
| Units: ETDRS letters | | | | |
| arithmetic mean (confidence interval 95%) | 3.2 (0.4 to 6.0) | 6.8 (2.9 to 10.8) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Mean change from baseline in CST, by study visit, based on SD-OCT

| | | | | |
|-----------------------------------|---|--|--|--|
| End point title | Mean change from baseline in CST, by study visit, based on SD-OCT | | | |
| End point description: | | | | |
| End point type | Secondary | | | |
| End point timeframe: at Day 90 | | | | |

| End point values | THR-317 4mg | THR-317 8mg | | |
|---|-----------------------|----------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 23 | 25 | | |
| Units: μm | | | | |
| arithmetic mean (confidence interval 95%) | -19.0 (-56.9 to 18.9) | -30.3 (-64.3 to 3.8) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of subjects withdrawn from repeat injection

| | | | | |
|--|--|--|--|--|
| End point title | Number of subjects withdrawn from repeat injection | | | |
| End point description: | | | | |
| End point type | Secondary | | | |
| End point timeframe: prior to the second injection and prior to the third injection | | | | |

| End point values | THR-317 4mg | THR-317 8mg | | |
|-------------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 24 | 25 | | |
| Units: subjects | | | | |
| prior to the second injection | 1 | 0 | | |
| prior to the third injection | 0 | 0 | | |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

From first injection up to Day 150

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

Dictionary used

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

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

Reporting groups

| | |
|-----------------------|-------------|
| Reporting group title | THR-317 4mg |
|-----------------------|-------------|

Reporting group description:

3 intravitreal injections of THR-317 4mg approximately 1 month apart

| | |
|-----------------------|-------------|
| Reporting group title | THR-317 8mg |
|-----------------------|-------------|

Reporting group description:

3 intravitreal injections of THR-317 8mg approximately 1 month apart

| Serious adverse events | THR-317 4mg | THR-317 8mg | |
|---|----------------|----------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 1 / 24 (4.17%) | 0 / 25 (0.00%) | |
| number of deaths (all causes) | 0 | 0 | |
| number of deaths resulting from adverse events | 0 | 0 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Pleural effusion | | | |
| subjects affected / exposed | 1 / 24 (4.17%) | 0 / 25 (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 | THR-317 4mg | THR-317 8mg | |
|---|-----------------|-----------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 4 / 24 (16.67%) | 3 / 25 (12.00%) | |
| Eye disorders | | | |
| Visual Impairment | | | |
| subjects affected / exposed | 2 / 24 (8.33%) | 0 / 25 (0.00%) | |
| occurrences (all) | 2 | 0 | |
| Infections and infestations | | | |

| | | | |
|-----------------------------|----------------|----------------|--|
| Nasopharyngitis | | | |
| subjects affected / exposed | 2 / 24 (8.33%) | 1 / 25 (4.00%) | |
| occurrences (all) | 2 | 1 | |
| Conjunctivitis | | | |
| subjects affected / exposed | 0 / 24 (0.00%) | 2 / 25 (8.00%) | |
| occurrences (all) | 0 | 2 | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? No

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported