



Clinical trial results:

A Phase 3, randomized, double-blind, efficacy and safety study comparing SAR442168 to placebo in participants with nonrelapsing secondary progressive multiple sclerosis (HERCULES)

Summary

| | |
|--------------------------|-------------------------------------------------------|
| EudraCT number | 2020-000647-30 |
| Trial protocol | BG FR DE GB CZ NO FI DK BE LT AT GR NL PT PL HU IT RO |
| Global end of trial date | 29 August 2024 |

Results information

| | |
|--------------------------------|--------------|
| Result version number | v1 (current) |
| This version publication date | 06 July 2025 |
| First version publication date | 06 July 2025 |

Trial information

Trial identification

| | |
|-----------------------|----------|
| Sponsor protocol code | EFC16645 |
|-----------------------|----------|

Additional study identifiers

| | |
|------------------------------------|-----------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT04411641 |
| WHO universal trial number (UTN) | U1111-1246-7768 |

Notes:

Sponsors

| | |
|------------------------------|------------------------------------------------------------------------------------------|
| Sponsor organisation name | Sanofi aventis recherche & développement |
| Sponsor organisation address | 450 Water Street, Cambridge, Massachusetts, United States, 02141 |
| Public contact | Trial Transparency Team, Sanofi aventis recherche & développement, Contact-US@sanofi.com |
| Scientific contact | Trial Transparency Team, Sanofi aventis recherche & développement, Contact-US@sanofi.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 | 27 September 2024 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 29 August 2024 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

To determine the efficacy of tolebrutinib compared to placebo in delaying disability progression in non-relapsing secondary progressive multiple sclerosis.

Protection of trial subjects:

Participants were fully informed of all pertinent aspects of the clinical trial as well as the possibility to discontinue at any time in language and terms appropriate for the participant and considering the local culture. During the course of the trial, participants were provided with individual participant cards indicating the nature of the trial the participant is participating, contact details and any information needed in the event of a medical emergency.

Collected personal data and human biological samples were processed in compliance with the Sanofi-Aventis Group Personal Data Protection Charter ensuring that the Group abides by the laws governing personal data protection in force in all countries in which it operates.

Background therapy: -

Evidence for comparator: -

| | |
|-----------------------------------------------------------|-------------------|
| Actual start date of recruitment | 24 September 2020 |
| 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 | Argentina: 26 |
| Country: Number of subjects enrolled | Australia: 19 |
| Country: Number of subjects enrolled | Austria: 17 |
| Country: Number of subjects enrolled | Belarus: 3 |
| Country: Number of subjects enrolled | Belgium: 23 |
| Country: Number of subjects enrolled | Bulgaria: 60 |
| Country: Number of subjects enrolled | Canada: 51 |
| Country: Number of subjects enrolled | China: 24 |
| Country: Number of subjects enrolled | Czechia: 40 |
| Country: Number of subjects enrolled | Denmark: 9 |
| Country: Number of subjects enrolled | Finland: 12 |
| Country: Number of subjects enrolled | France: 107 |
| Country: Number of subjects enrolled | Germany: 41 |
| Country: Number of subjects enrolled | Greece: 27 |
| Country: Number of subjects enrolled | Hungary: 20 |
| Country: Number of subjects enrolled | India: 13 |
| Country: Number of subjects enrolled | Israel: 13 |

| | |
|--------------------------------------|-------------------------|
| Country: Number of subjects enrolled | Italy: 43 |
| Country: Number of subjects enrolled | Japan: 13 |
| Country: Number of subjects enrolled | Lithuania: 9 |
| Country: Number of subjects enrolled | Netherlands: 8 |
| Country: Number of subjects enrolled | Norway: 13 |
| Country: Number of subjects enrolled | Poland: 87 |
| Country: Number of subjects enrolled | Portugal: 4 |
| Country: Number of subjects enrolled | Romania: 22 |
| Country: Number of subjects enrolled | Russian Federation: 103 |
| Country: Number of subjects enrolled | Spain: 87 |
| Country: Number of subjects enrolled | Türkiye: 36 |
| Country: Number of subjects enrolled | Ukraine: 63 |
| Country: Number of subjects enrolled | United Kingdom: 27 |
| Country: Number of subjects enrolled | United States: 111 |
| Worldwide total number of subjects | 1131 |
| EEA total number of subjects | 629 |

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) | 1131 |
| From 65 to 84 years | 0 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

A total of 1131 participants were randomized in this study in a 2:1 ratio to receive either tolebrutinib or matching placebo in the double-blind (DB) period. Participants with 6-month confirmed disability progression (CDP) were given the option to receive open-label (OL) tolebrutinib.

Pre-assignment

Screening details:

This was an event-driven (6-month CDP) trial with a variable treatment duration (end-of-study [EOS] duration: up to approximately 47 months).

Period 1

| | |
|------------------------------|-------------------------------------------------|
| Period 1 title | DB period |
| Is this the baseline period? | Yes |
| Allocation method | Randomised - controlled |
| Blinding used | Double blind |
| Roles blinded | Subject, Investigator, Monitor, Carer, Assessor |

Arms

| | |
|------------------------------|-------------|
| Are arms mutually exclusive? | Yes |
| Arm title | DB: Placebo |

Arm description:

Participants received placebo matched to tolebrutinib orally once daily up to approximately 47 months.

| | |
|----------------------------------------|--------------------|
| Arm type | Placebo |
| Investigational medicinal product name | Placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Film-coated tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Placebo matched to tolebrutinib was administered orally once daily up to approximately 47 months.

| | |
|------------------|------------------------|
| Arm title | DB: Tolebrutinib 60 mg |
|------------------|------------------------|

Arm description:

Participants received tolebrutinib 60 milligrams (mg) tablet orally once daily up to approximately 47 months.

| | |
|----------------------------------------|--------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Tolebrutinib |
| Investigational medicinal product code | SAR442168 |
| Other name | |
| Pharmaceutical forms | Film-coated tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Tolebrutinib 60 mg was administered as a tablet orally once daily up to approximately 47 months.

| Number of subjects in period 1 | DB: Placebo | DB: Tolebrutinib 60 mg |
|---------------------------------------|-------------|------------------------|
| Started | 377 | 754 |
| Completed | 192 | 434 |
| Not completed | 185 | 320 |
| Consent withdrawn by subject | 67 | 122 |
| Adverse event, non-fatal | 13 | 29 |
| Randomized and not treated | 2 | 2 |
| Unspecified | 7 | 27 |
| Poor compliance to protocol | 1 | 5 |
| Progressive disease | 76 | 116 |
| Lack of efficacy | 19 | 19 |

Period 2

| | |
|------------------------------|----------------|
| Period 2 title | OL |
| Is this the baseline period? | No |
| Allocation method | Not applicable |
| Blinding used | Not blinded |

Arms

| | |
|------------------------------|--------------------------------|
| Are arms mutually exclusive? | Yes |
| Arm title | OL: Placebo/Tolebrutinib 60 mg |

Arm description:

Participants who received placebo in DB period and achieved 6-month CDP were given the option to receive OL tolebrutinib 60 mg tablet orally once daily up to approximately 39 months in the OL.

| | |
|----------------------------------------|--------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Tolebrutinib |
| Investigational medicinal product code | SAR442168 |
| Other name | |
| Pharmaceutical forms | Film-coated tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Tolebrutinib 60 mg was optionally administered as a tablet orally once daily in OL up to approximately 39 months to those participants who received placebo in DB period and achieved 6-month CDP.

| | |
|------------------|-------------------------------------------|
| Arm title | OL: Tolebrutinib 60 mg/Tolebrutinib 60 mg |
|------------------|-------------------------------------------|

Arm description:

Participants who received tolebrutinib 60 mg in DB period and achieved 6-month CDP were given the option to continue to receive OL tolebrutinib 60 mg tablet orally once daily up to approximately 39 months in the OL.

| | |
|----------------------------------------|--------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Tolebrutinib |
| Investigational medicinal product code | SAR442168 |
| Other name | |
| Pharmaceutical forms | Film-coated tablet |
| Routes of administration | Oral use |

Dosage and administration details:

Tolebrutinib 60 mg was optionally administered as a tablet orally once daily in OL up to approximately 39 months to those participants who received tolebrutinib 60 mg in DB period and achieved 6-month CDP.

| Number of subjects in period 2^[1] | OL: Placebo/Tolebrutinib 60 mg | OL: Tolebrutinib 60 mg/Tolebrutinib 60 mg |
|-----------------------------------------------------|--------------------------------|-------------------------------------------|
| Started | 76 | 120 |
| Completed | 67 | 95 |
| Not completed | 9 | 25 |
| Consent withdrawn by subject | 6 | 17 |
| Adverse event, non-fatal | 1 | - |
| Poor compliance to protocol | 1 | - |
| Unspecified | - | 6 |
| Progressive disease | 1 | 2 |

Notes:

[1] - The number of subjects starting the period is not consistent with the number completing the preceding period. It is expected the number of subjects starting the subsequent period will be the same as the number completing the preceding period.

Justification: Only eligible participants switched to OL.

Baseline characteristics

Reporting groups

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Reporting group title | DB: Placebo |
| Reporting group description: Participants received placebo matched to tolebrutinib orally once daily up to approximately 47 months. | |
| Reporting group title | DB: Tolebrutinib 60 mg |
| Reporting group description: Participants received tolebrutinib 60 milligrams (mg) tablet orally once daily up to approximately 47 months. | |

| Reporting group values | DB: Placebo | DB: Tolebrutinib 60 mg | Total |
|------------------------------------|-------------|------------------------|-------|
| Number of subjects | 377 | 754 | 1131 |
| Age categorical Units: Subjects | | | |

| | | | |
|-------------------------------------------------------------------------|---------------|---------------|------|
| Age Continuous Units: years arithmetic mean standard deviation | 48.9 ± 8.0 | 48.9 ± 8.0 | - |
| Sex: Female, Male Units: participants | | | |
| Female | 242 | 454 | 696 |
| Male | 135 | 300 | 435 |
| Race (NIH/OMB) Units: Subjects | | | |
| American Indian or Alaska Native | 0 | 1 | 1 |
| Asian | 19 | 36 | 55 |
| Native Hawaiian or Other Pacific Islander | 0 | 0 | 0 |
| Black or African American | 4 | 6 | 10 |
| White | 348 | 703 | 1051 |
| More than one race | 0 | 1 | 1 |
| Unknown or Not Reported | 6 | 7 | 13 |

End points

End points reporting groups

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Reporting group title | DB: Placebo |
| Reporting group description: Participants received placebo matched to tolebrutinib orally once daily up to approximately 47 months. | |
| Reporting group title | DB: Tolebrutinib 60 mg |
| Reporting group description: Participants received tolebrutinib 60 milligrams (mg) tablet orally once daily up to approximately 47 months. | |
| Reporting group title | OL: Placebo/Tolebrutinib 60 mg |
| Reporting group description: Participants who received placebo in DB period and achieved 6-month CDP were given the option to receive OL tolebrutinib 60 mg tablet orally once daily up to approximately 39 months in the OL. | |
| Reporting group title | OL: Tolebrutinib 60 mg/Tolebrutinib 60 mg |
| Reporting group description: Participants who received tolebrutinib 60 mg in DB period and achieved 6-month CDP were given the option to continue to receive OL tolebrutinib 60 mg tablet orally once daily up to approximately 39 months in the OL. | |

Primary: Time to Onset of 6-Month Confirmed Disability Progression (CDP) as Assessed by Expanded Disability Status Scale (EDSS)

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--|--|
| End point title | Time to Onset of 6-Month Confirmed Disability Progression (CDP) as Assessed by Expanded Disability Status Scale (EDSS) | | |
| End point description: The EDSS is a disability scale that assesses the following 7 functional domains: visual, brainstem, pyramidal [motor], cerebellar [coordination], sensory, cerebral, and bowel/bladder. The total EDSS ranges from 0 (normal) to 10 (death due to multiple sclerosis [MS]) (0.5 increments from 1-10; next increase after 0 is 1). Higher scores indicated increased disability. Time to onset of 6-month CDP was defined as the time from randomization to the onset of a sustained increase from baseline in EDSS score of ≥ 1.0 point from the baseline EDSS score when the baseline score was ≤ 5.0 or of ≥ 0.5 points when the baseline EDSS score was > 5.0 confirmed after a minimum 6-month interval. The intent-to-treat (ITT) population included all randomized participants according to the intervention group allocated by the randomization, irrespective of the study intervention received. | | | |
| End point type | Primary | | |
| End point timeframe: Baseline (Day 1) up to approximately 47 months | | | |

| End point values | DB: Placebo | DB: Tolebrutinib 60 mg | | |
|-------------------------------|---------------------|------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 377 | 754 | | |
| Units: months | | | | |
| median (full range (min-max)) | 11.97 (0.5 to 39.1) | 12.04 (2.8 to 37.4) | | |

Statistical analyses

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Statistical analysis title | Time to onset of 6-month CDP as assessed by EDSS |
| Statistical analysis description: Derived using Cox proportional-hazards model with robust variance estimation. Covariates were treatment group, age at screening (>40, <=40 years), geographic region (United States [US], non-US), baseline EDSS score & baseline gadolinium (Gd)-enhancing T1 lesions (presence, absence). In this analysis, for participants who completed study with 3-month confirmation and continued to meet disability progression criteria throughout EOS, their 6-month CDP status was imputed via multiple imputation method. | |
| Comparison groups | DB: Placebo v DB: Tolebrutinib 60 mg |
| Number of subjects included in analysis | 1131 |
| Analysis specification | Pre-specified |
| Analysis type | superiority ^[1] |
| P-value | = 0.0026 ^[2] |
| Method | Regression, Cox |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.693 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.546 |
| upper limit | 0.88 |

Notes:

[1] - A hierarchical testing procedure was used to control the overall type I error. Testing was then performed sequentially in order the outcome measures are reported and continued when previous outcome measure was statistically significant at 2-sided 0.05. Primary and first 6 secondary endpoints are included in this procedure.

[2] - Threshold for significance at 2-sided 0.05 level.

Secondary: Time to Onset of 3-month Confirmed Disability Progression as Assessed by Expanded Disability Status Scale

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| End point title | Time to Onset of 3-month Confirmed Disability Progression as Assessed by Expanded Disability Status Scale |
| End point description: The EDSS is a disability scale that assesses the following 7 functional domains: visual, brainstem, pyramidal [motor], cerebellar [coordination], sensory, cerebral, and bowel/bladder. The total EDSS ranges from 0 (normal) to 10 (death due to MS) (0.5 increments from 1-10; next increase after 0 is 1). Higher scores indicated increased disability. Time to onset of 3-month CDP was defined as the time from randomization to the onset of a sustained increase from baseline in EDSS score (of >=1.0 point from the baseline EDSS score when the baseline score is <=5.0, of >=0.5 points when the baseline EDSS score is >5.0) confirmed after a minimum 3-month interval. The confirmation of 3-month CDP followed the same criteria as that of 6-month CDP. The ITT population included all randomized participants according to the intervention group allocated by the randomization, irrespective of the study intervention received. | |
| End point type | Secondary |
| End point timeframe: Baseline (Day 1) up to approximately 47 months | |

| | | | | |
|-------------------------------|------------------------|------------------------------|--|--|
| End point values | DB: Placebo | DB: Tolebrutinib 60 mg | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 377 | 754 | | |
| Units: months | | | | |
| median (full range (min-max)) | 11.96 (0.5 to 39.1) | 12.04 (2.8 to 39.5) | | |

Statistical analyses

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Statistical analysis title | Time to onset of 3-month CDP as assessed by EDSS |
| Statistical analysis description: | |
| Derived using Cox proportional-hazards model with robust variance estimation. Covariates were treatment group, age at screening (>40, <=40 years), geographic region (US, non-US), baseline EDSS score and baseline Gd-enhancing T1 lesions (presence, absence). | |
| Comparison groups | DB: Placebo v DB: Tolebrutinib 60 mg |
| Number of subjects included in analysis | 1131 |
| Analysis specification | Pre-specified |
| Analysis type | superiority ^[3] |
| P-value | = 0.0134 ^[4] |
| Method | Regression, Cox |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.757 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.607 |
| upper limit | 0.944 |

Notes:

[3] - A hierarchical testing procedure was used to control the overall type I error. Testing was then performed sequentially in order the outcome measures are reported and continued when previous outcome measure was statistically significant at 2-sided 0.05. Primary and first 6 secondary endpoints are included in this procedure.

[4] - Threshold for significance at 2-sided 0.05 level.

Secondary: Mean Number of new and/or Enlarging T2-hyperintense Lesions per Year

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| End point title | Mean Number of new and/or Enlarging T2-hyperintense Lesions per Year |
| End point description: | |
| Magnetic resonance imaging (MRI) of the brain was performed to identify number of new and/or enlarging T2-hyperintense lesions defined as the sum of the individual number of new and/or enlarging T2 lesions from baseline up to and including the EOS visit. The ITT population included all randomized participants according to the intervention group allocated by the randomization, irrespective of the study intervention received. | |
| End point type | Secondary |
| End point timeframe: | |
| Baseline (Day 1) up to approximately 47 months | |

| | | | | |
|-------------------------------------------|------------------------|------------------------------|--|--|
| End point values | DB: Placebo | DB: Tolebrutinib 60 mg | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 377 | 754 | | |
| Units: number of T2 lesions | | | | |
| arithmetic mean (confidence interval 95%) | 2.948 (2.239 to 3.880) | 1.835 (1.441 to 2.336) | | |

Statistical analyses

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Statistical analysis title | New/enlarging T2-hyperintense lesions per year |
| Statistical analysis description: | |
| Derived using negative binomial model with the number of new and/or enlarging T2-hyperintense lesions between randomization date and EOS date as the response variable, treatment group, age at screening (>40, <=40 years), geographic region (US, non-US), baseline EDSS score, and baseline number of T2 lesions as covariates, and log transformed observation duration as the offset variable. | |
| Comparison groups | DB: Placebo v DB: Tolebrutinib 60 mg |
| Number of subjects included in analysis | 1131 |
| Analysis specification | Pre-specified |
| Analysis type | superiority ^[5] |
| P-value | = 0.011 ^[6] |
| Method | Chi-squared |
| Parameter estimate | Relative Risk |
| Point estimate | 0.622 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.432 |
| upper limit | 0.897 |

Notes:

[5] - A hierarchical testing procedure was used to control the overall type I error. Testing was then performed sequentially in order the outcome measures are reported and continued when previous outcome measure was statistically significant at 2-sided 0.05. Primary and first 6 secondary endpoints are included in this procedure.

[6] - Threshold for significance at 2-sided 0.05 level.

Secondary: Time to Onset of Sustained 20% Increase in the 9-hole peg Test (HPT) for at Least 3 Months

| | |
|-----------------|--------------------------------------------------------------------------------------------|
| End point title | Time to Onset of Sustained 20% Increase in the 9-hole peg Test (HPT) for at Least 3 Months |
|-----------------|--------------------------------------------------------------------------------------------|

End point description:

The 9-HPT is a brief, standardized, quantitative test of upper extremity function and the time to complete the 9-HPT is used to assess a participant's manual dexterity and fine motor skills. A participant was asked to place the pegs into the holes and remove them with the dominant and non-dominant hand; two successful trials for each hand. The amount of time (in seconds) required to place and remove all nine pegs was recorded for each trial (ranging from 10 to 300 seconds). The mean time to test completion served for assessment of the participant's hand dexterity. Higher value indicated worse outcome. An increase of >20% from the baseline in the 9-HPT was considered meaningful worsening; time to onset of sustained 20% increase for at least 3 months is presented. The ITT population included all randomized participants according to the intervention group allocated by the randomization, irrespective of the study intervention received.

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

End point timeframe:

Baseline (Day 1) up to approximately 47 months

| | | | | |
|-------------------------------|------------------------|------------------------------|--|--|
| End point values | DB: Placebo | DB: Tolebrutinib 60 mg | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 377 | 754 | | |
| Units: months | | | | |
| median (full range (min-max)) | 12.39 (2.5 to 33.3) | 12.21 (2.8 to 39.2) | | |

Statistical analyses

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Statistical analysis title | 9-hole HPT |
| Statistical analysis description: | |
| Derived using Cox proportional-hazards model with robust variance estimation. Covariates were treatment group, age at screening (>40, <=40 years), geographic region (US, non-US), baseline EDSS score and baseline Gd-enhancing T1 lesions (presence, absence). | |
| Comparison groups | DB: Placebo v DB: Tolebrutinib 60 mg |
| Number of subjects included in analysis | 1131 |
| Analysis specification | Pre-specified |
| Analysis type | superiority ^[7] |
| P-value | = 0.8428 ^[8] |
| Method | Regression, Cox |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.972 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.735 |
| upper limit | 1.286 |

Notes:

[7] - A hierarchical testing procedure was used to control the overall type I error. Testing was then performed sequentially in order the outcome measures are reported and continued when previous outcome measure was statistically significant at 2-sided 0.05. Primary and first 6 secondary endpoints are included in this procedure.

[8] - Threshold for significance at 2-sided 0.05 level.

Secondary: Time to Onset of Sustained 20% Increase in the Timed 25-foot Walk (T25-FW) for at Least 3 Months

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| End point title | Time to Onset of Sustained 20% Increase in the Timed 25-foot Walk (T25-FW) for at Least 3 Months |
| End point description: | |
| The T25-FW test is a quantitative mobility and leg function performance test used to assess a participant's walking ability. A participant was directed to one end of a clearly marked 25-foot course and instructed to walk 25 feet as quickly as safely possible for 2 trials. The amount of time (in seconds) to walk 25 feet was recorded (ranging from 2.2 to 180 seconds). The mean walk time was used for assessment of the participant's walking ability. Higher value indicated worse outcome. An increase of >20% from the baseline in the T25-FW test was considered meaningful worsening; time to onset of sustained 20% increase for at least 3 months is presented. The ITT population included all randomized participants according to the intervention group allocated by the randomization, irrespective of the study intervention received. | |
| End point type | Secondary |

End point timeframe:

Baseline (Day 1) up to approximately 47 months

| | | | | |
|-------------------------------|-----------------------|------------------------------|--|--|
| End point values | DB: Placebo | DB: Tolebrutinib 60 mg | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 377 | 754 | | |
| Units: months | | | | |
| median (full range (min-max)) | 9.25 (2.5 to 36.3) | 9.54 (2.8 to 39.3) | | |

Statistical analyses

| | |
|-----------------------------------|--------|
| Statistical analysis title | T25-FW |
|-----------------------------------|--------|

Statistical analysis description:

Derived using Cox proportional-hazards model with robust variance estimation. Covariates were treatment group, age at screening (>40, <=40 years), geographic region (US, non-US), baseline EDSS score and baseline Gd-enhancing T1 lesions (presence, absence).

| | |
|-----------------------------------------|--------------------------------------|
| Comparison groups | DB: Placebo v DB: Tolebrutinib 60 mg |
| Number of subjects included in analysis | 1131 |
| Analysis specification | Pre-specified |
| Analysis type | superiority ^[9] |
| P-value | = 0.004 |
| Method | Regression, Cox |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.767 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.64 |
| upper limit | 0.919 |

Notes:

[9] - A hierarchical testing procedure was used to control the overall type I error. Testing was then performed sequentially in order the outcome measures are reported and continued when previous outcome measure was statistically significant at 2-sided 0.05. Primary and first 6 secondary endpoints are included in this procedure.

Secondary: Time to Onset of 6-month Confirmed Disability Improvement (CDI) as Assessed by Expanded Disability Status Scale

| | |
|-----------------|-----------------------------------------------------------------------------------------------------------------|
| End point title | Time to Onset of 6-month Confirmed Disability Improvement (CDI) as Assessed by Expanded Disability Status Scale |
|-----------------|-----------------------------------------------------------------------------------------------------------------|

End point description:

The EDSS is a disability scale that assesses the following 7 functional domains: visual, brainstem, pyramidal [motor], cerebellar [coordination], sensory, cerebral, and bowel/bladder. The total EDSS ranges from 0 (normal) to 10 (death due to MS) (0.5 increments from 1-10; next increase after 0 is 1). Higher scores indicated increased disability. CDI was defined as a ≥ 1 point decrease in the EDSS score from baseline confirmed over at least 6 months. The ITT population included all randomized participants according to the intervention group allocated by the randomization, irrespective of the study intervention received.

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

End point timeframe:

Baseline (Day 1) up to approximately 47 months

| | | | | |
|-------------------------------|------------------------|------------------------------|--|--|
| End point values | DB: Placebo | DB: Tolebrutinib 60 mg | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 377 | 754 | | |
| Units: months | | | | |
| median (full range (min-max)) | 12.04 (3.0 to 24.1) | 11.89 (2.9 to 33.0) | | |

Statistical analyses

| | |
|-----------------------------------|--------------------------------------------------|
| Statistical analysis title | Time to onset of 6-month CDI as assessed by EDSS |
|-----------------------------------|--------------------------------------------------|

Statistical analysis description:

Derived using Cox proportional-hazards model with robust variance estimation. Covariates were treatment group, age at screening (>40, <=40 years), geographic region (US, non-US), baseline EDSS score and baseline Gd-enhancing T1 lesions (presence, absence).

| | |
|-----------------------------------------|--------------------------------------|
| Comparison groups | DB: Placebo v DB: Tolebrutinib 60 mg |
| Number of subjects included in analysis | 1131 |
| Analysis specification | Pre-specified |
| Analysis type | superiority ^[10] |
| P-value | = 0.0206 |
| Method | Regression, Cox |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 1.882 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 1.102 |
| upper limit | 3.214 |

Notes:

[10] - A hierarchical testing procedure was used to control the overall type I error. Testing was then performed sequentially in order the outcome measures are reported and continued when previous outcome measure was statistically significant at 2-sided 0.05. Primary and first 6 secondary endpoints are included in this procedure.

Secondary: Percent Change in Brain Volume at EOS Compared to Month 6

| | |
|-----------------|-----------------------------------------------------------|
| End point title | Percent Change in Brain Volume at EOS Compared to Month 6 |
|-----------------|-----------------------------------------------------------|

End point description:

MRI of the brain was performed to evaluate percent change in brain volume which is considered as a marker of the central nervous system degenerative process. Least squares (LS) mean is presented. The ITT population included all randomized participants according to the intervention group allocated by the randomization, irrespective of the study intervention received. Only those participants with data collected at specified timepoints are reported.

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

End point timeframe:

Month 6 to EOS (up to approximately 47 months)

| | | | | |
|-------------------------------------|---------------------------|-----------------------------|--|--|
| End point values | DB: Placebo | DB: Tolbrutinib 60 mg | | |
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 223 | 451 | | |
| Units: percent change | | | | |
| least squares mean (standard error) | -0.776 (\pm 0.0479) | -0.694 (\pm 0.0336) | | |

Statistical analyses

| | |
|-----------------------------------|-------------------------------------------------|
| Statistical analysis title | Percent change in brain volume (EOS to Month 6) |
|-----------------------------------|-------------------------------------------------|

Statistical analysis description:

Covariates in the mixed-effect model with repeated measures were treatment group, age at screening (>40, <=40 years), geographic region (US, non-US), visit, treatment-by-visit interaction, cube root transformed Month 6 brain volume, and cube root transformed Month 6 brain volume-by-visit interaction.

| | |
|-----------------------------------------|--------------------------------------|
| Comparison groups | DB: Placebo v DB: Tolbrutinib 60 mg |
| Number of subjects included in analysis | 674 |
| Analysis specification | Pre-specified |
| Analysis type | superiority ^[11] |
| P-value | = 0.1646 |
| Method | Mixed model repeated measures (MMRM) |
| Parameter estimate | LS Mean Difference |
| Point estimate | 0.082 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.034 |
| upper limit | 0.197 |

Notes:

[11] - A hierarchical testing procedure was used to control the overall type I error. Testing was then performed sequentially in order the outcome measures are reported and continued when previous outcome measure was statistically significant at 2-sided 0.05. Primary and first 6 secondary endpoints are included in this procedure.

Secondary: Change From Baseline in Cognitive Function as Assessed by Symbol Digit Modalities Test (SDMT) at EOS

| | |
|-----------------|------------------------------------------------------------------------------------------------------|
| End point title | Change From Baseline in Cognitive Function as Assessed by Symbol Digit Modalities Test (SDMT) at EOS |
|-----------------|------------------------------------------------------------------------------------------------------|

End point description:

The SDMT is used to assess processing speed, divided attention, visual scanning, tracking and motor speed. It involves a simple substitution task using a reference key. The number of correct substitutions and number of items completed within a 90 second interval (maximum 110 seconds) are recorded. A decrease of 4 points from baseline on the SDMT is considered meaningful worsening. The score was the number of correctly coded items from 0-110 in 90 seconds; higher scores indicated better outcome. LS mean is presented. Baseline was defined as the last available value prior to the first dose of study intervention. Analysis was performed on the ITT population. Only those participants with data collected at specified timepoints are reported.

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

End point timeframe:

Baseline (Day 1) to EOS (up to approximately 47 months)

| End point values | DB: Placebo | DB: Tolibrutinib 60 mg | | |
|-------------------------------------|--------------------------|------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 271 | 546 | | |
| Units: score on a scale | | | | |
| least squares mean (standard error) | 0.171 (\pm 0.0373) | 0.136 (\pm 0.0264) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change From Baseline in Cognitive Function as Assessed by California Verbal Learning Test Second Edition (CVLT-II) at EOS

| | |
|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| End point title | Change From Baseline in Cognitive Function as Assessed by California Verbal Learning Test Second Edition (CVLT-II) at EOS |
|-----------------|---------------------------------------------------------------------------------------------------------------------------|

End point description:

The CVLT-II is a verbal learning and memory test consisting of recall and recognition of a list of 16 words. The list was read by the examiner, participants listened to the list and reported as many of the items as possible. For each assessment, 5 trials were completed. Standardized scores were used for analysis. The maximum possible score was 80 and a minimum was 0. A higher score indicated better recall meaning improved cognitive function. LS mean is presented. Baseline was defined as the last available value prior to the first dose of study intervention. The ITT population included all randomized participants according to the intervention group allocated by the randomization, irrespective of the study intervention received. Only those participants with data collected at specified timepoints are reported.

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

End point timeframe:

Baseline (Day 1) to EOS (up to approximately 47 months)

| End point values | DB: Placebo | DB: Tolibrutinib 60 mg | | |
|-------------------------------------|---------------------------|------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 262 | 531 | | |
| Units: score on a scale | | | | |
| least squares mean (standard error) | 13.448 (\pm 0.9571) | 14.169 (\pm 0.6759) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change From Baseline in Multiple Sclerosis Quality of Life-54 (MSQoL-54) Questionnaire Score at EOS

| | |
|-----------------|-----------------------------------------------------------------------------------------------------|
| End point title | Change From Baseline in Multiple Sclerosis Quality of Life-54 (MSQoL-54) Questionnaire Score at EOS |
|-----------------|-----------------------------------------------------------------------------------------------------|

End point description:

MSQoL-54 consists of 12 subscales & 2 single-item measures (satisfaction with sexual function [1 item] & change in health [1 item]).12 subscales:a:physical health (10 items),b:health perceptions (5 items), c:energy (5 items),d:role limitation physical (4 items),e:sexual function (4 items),f:pain (3 items),g:social function (3 items),h:health distress (4 items),i:overall quality of life (2 items),j:emotional well-being (5 items),k:role limitations emotional (3 items) and l:cognitive function (4 items).Physical & mental health composite score calculated as weighted sum of 'a to h' subscales and 'i to l' subscales respectively.Each composite score transformed linearly to common 0 (worst) to 100 (best) score range;LS mean presented.Higher score=improved QoL.Baseline:last available value prior to first dose of study intervention. Analyzed on ITT population.Only those participants with data collected at specified timepoints are reported.n=number of participants for each specified category.

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

End point timeframe:

Baseline (Day 1) to EOS (up to approximately 47 months)

| End point values | DB: Placebo | DB: Tolebrutinib 60 mg | | |
|----------------------------------------------|-------------------|------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 268 | 552 | | |
| Units: score on a scale | | | | |
| least squares mean (standard error) | | | | |
| Physical health composite score (n=262, 536) | -3.979 (± 0.8032) | -3.455 (± 0.5623) | | |
| Mental health composite score (268, 552) | -4.648 (± 0.9964) | -3.944 (± 0.6959) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Participants With Treatment-emergent Adverse Events (AEs), Treatment-emergent Serious AEs, Treatment-emergent AEs Leading to Permanent Study Intervention Discontinuation, and Treatment-emergent Adverse Events of Special Interest (AESIs)

| | |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| End point title | Number of Participants With Treatment-emergent Adverse Events (AEs), Treatment-emergent Serious AEs, Treatment-emergent AEs Leading to Permanent Study Intervention Discontinuation, and Treatment-emergent Adverse Events of Special Interest (AESIs) |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

End point description:

An AE was any untoward medical occurrence in participant or clinical study participant, temporally associated with use of study intervention, whether or not considered related to study intervention. SAE was any untoward medical occurrence that at any dose: resulted in death, was life-threatening, required inpatient hospitalization or prolongation of existing hospitalization, resulted in persistent disability/incapacity, was a congenital anomaly/birth defect or was important medical event. An AESI was an AE (serious or nonserious) of scientific and medical concern specific to Sponsor's product or program for which ongoing monitoring and immediate notification by Investigator to the Sponsor was required. TEAEs were defined as AEs that developed, worsened or became serious during TE period. The safety population included all randomized participants exposed to study intervention, regardless of the

amount of exposure, analyzed according to the intervention actually received.

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

End point timeframe:

From first dose of study intervention (Day 1) up to end of follow-up, up to approximately 47 months

| End point values | DB: Placebo | OL: Placebo/Tolebrutinib 60 mg | DB: Tolebrutinib 60 mg | OL: Tolebrutinib 60 mg/Tolebrutinib 60 mg |
|----------------------------------------------------|-----------------|--------------------------------|------------------------|-------------------------------------------|
| Subject group type | Reporting group | Reporting group | Reporting group | Reporting group |
| Number of subjects analysed | 375 | 76 | 752 | 120 |
| Units: participants | | | | |
| TEAEs | 293 | 47 | 613 | 80 |
| TESAEs | 39 | 9 | 113 | 11 |
| TEAEs:Permanent Study Intervention Discontinuation | 11 | 1 | 29 | 0 |
| TEAESIs | 20 | 6 | 75 | 10 |

Statistical analyses

No statistical analyses for this end point

Secondary: Time to Maximum Observed Plasma Concentration (Tmax) of Tolebrutinib and M2 Metabolite

| | |
|-----------------|--------------------------------------------------------------------------------------------------------|
| End point title | Time to Maximum Observed Plasma Concentration (Tmax) of Tolebrutinib and M2 Metabolite ^[12] |
|-----------------|--------------------------------------------------------------------------------------------------------|

End point description:

Blood samples were collected at specified timepoints to assess Tmax of tolebrutinib and M2 metabolite using a PopPK model. The PK population included all participants in the safety population with at least 1 non-missing PK sample after first dose of the study intervention. Only those participants with data collected at specified timepoints are reported.

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

End point timeframe:

30-90 minutes post-dose at Months 6, 9, and 12 and 2.5-5 hours post-dose at Months 6 and 12

Notes:

[12] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.

Justification: Participants who received tolebrutinib are included in this endpoint.

| End point values | DB: Tolebrutinib 60 mg | | | |
|--------------------------------------|------------------------|--|--|--|
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 669 | | | |
| Units: hour (h) | | | | |
| arithmetic mean (standard deviation) | | | | |
| Tolebrutinib | 1.42 (± 0.674) | | | |
| M2 Metabolite | 1.52 (± 0.667) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Maximum Observed Plasma Concentration (Cmax) of Tolebrutinib and M2 Metabolite

| | |
|-----------------|------------------------------------------------------------------------------------------------|
| End point title | Maximum Observed Plasma Concentration (Cmax) of Tolebrutinib and M2 Metabolite ^[13] |
|-----------------|------------------------------------------------------------------------------------------------|

End point description:

Blood samples were collected at specified timepoints to assess Cmax of tolebrutinib and M2 metabolite using a population pharmacokinetics (PopPK) model. The PK population included all participants in the safety population with at least 1 non-missing PK sample after first dose of the study intervention. Only those participants with data collected at specified timepoints are reported.

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

End point timeframe:

30-90 minutes post-dose at Months 6, 9, and 12 and 2.5-5 hours post-dose at Months 6 and 12

Notes:

[13] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.

Justification: Participants who received tolebrutinib are included in this endpoint.

| | | | | |
|--------------------------------------|------------------------------|--|--|--|
| End point values | DB: Tolebrutinib 60 mg | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 669 | | | |
| Units: nanogram/milliliter (ng/mL) | | | | |
| arithmetic mean (standard deviation) | | | | |
| Tolebrutinib | 9.94 (± 6.18) | | | |
| M2 Metabolite | 27.5 (± 17.3) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Area Under the Plasma Concentration-time Curve Over the Last 24-hours Dosing Interval (AUC0-24) of Tolebrutinib and M2 Metabolite

| | |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| End point title | Area Under the Plasma Concentration-time Curve Over the Last 24-hours Dosing Interval (AUC0-24) of Tolebrutinib and M2 Metabolite ^[14] |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------|

End point description:

Blood samples were collected at specified timepoints to assess AUC0-24 of tolebrutinib and M2 metabolite using a PopPK model. The PK population included all participants in the safety population with at least 1 non-missing PK sample after first dose of the study intervention. Only those participants with data collected at specified timepoints are reported.

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

End point timeframe:

30-90 minutes post-dose at Months 6, 9, and 12 and 2.5-5 hours post-dose at Months 6 and 12

Notes:

[14] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.

Justification: Participants who received tolebrutinib are included in this endpoint.

| End point values | DB: Tolebrutinib 60 mg | | | |
|--------------------------------------|------------------------------|--|--|--|
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 669 | | | |
| Units: ng*h/mL | | | | |
| arithmetic mean (standard deviation) | | | | |
| Tolebrutinib | 29.6 (± 17.8) | | | |
| M2 Metabolite | 84.6 (± 53.7) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change From Baseline in Plasma Neurofilament Light Chain (NfL) and Serum Chitinase-3 Like Protein-1 (Chi3L1) Levels at EOS

| | |
|-----------------|----------------------------------------------------------------------------------------------------------------------------|
| End point title | Change From Baseline in Plasma Neurofilament Light Chain (NfL) and Serum Chitinase-3 Like Protein-1 (Chi3L1) Levels at EOS |
|-----------------|----------------------------------------------------------------------------------------------------------------------------|

End point description:

Blood samples were collected at specified timepoints to assess change from baseline in NfL and Chi3L1. Baseline was defined as the last available value prior to the first dose of study intervention. The safety population included all randomized participants exposed to study intervention, regardless of the amount of exposure, analyzed according to the intervention actually received. Only those participants with data collected at specified timepoints are reported. Here, n= number of participants for each specified category.

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

End point timeframe:

Baseline (Day 1) to EOS (up to approximately 47 months)

| End point values | DB: Placebo | DB: Tolebrutinib 60 mg | | |
|---------------------------------------|-----------------------------------|-----------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 171 | 410 | | |
| Units: picogram/mL | | | | |
| median (inter-quartile range (Q1-Q3)) | | | | |
| NfL (n=168, 403) | 1.070 (-1.285 to 3.615) | 1.900 (-0.370 to 4.470) | | |
| Chi3L1 (n=171, 410) | 5156.900 (-1555.700 to 12099.200) | 3132.250 (-2822.100 to 13407.100) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change From Baseline in Cluster of Differentiation (CD)19+ B Cells at EOS

| | |
|-----------------|---------------------------------------------------------------------------|
| End point title | Change From Baseline in Cluster of Differentiation (CD)19+ B Cells at EOS |
|-----------------|---------------------------------------------------------------------------|

End point description:

Blood samples were collected at specified timepoints to assess change from baseline in CD19+ B cells. Baseline was defined as the last available value prior to the first dose of study intervention. The safety population included all randomized participants exposed to study intervention, regardless of the amount of exposure, analyzed according to the intervention actually received. Only those participants with data collected at specified timepoints are reported.

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

End point timeframe:

Baseline (Day 1) to EOS (up to approximately 47 months)

| End point values | DB: Placebo | DB: Tolebrutinib 60 mg | | |
|---------------------------------------|----------------------------|------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 26 | 58 | | |
| Units: cells/microliter | | | | |
| median (inter-quartile range (Q1-Q3)) | 10.000 (-18.000 to 77.000) | -63.000 (-105.000 to -8.000) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Change From Baseline in Serum Immunoglobulin (Ig) Levels at EOS

| | |
|-----------------|-----------------------------------------------------------------|
| End point title | Change From Baseline in Serum Immunoglobulin (Ig) Levels at EOS |
|-----------------|-----------------------------------------------------------------|

End point description:

Blood samples were collected at specified timepoints to assess change from baseline in IgG and IgM levels. Baseline was defined as the last available value prior to the first dose of study intervention. The safety population included all randomized participants exposed to study intervention, regardless of the amount of exposure, analyzed according to the intervention actually received. Only those participants with data collected at specified timepoints are reported. Here, n= number of participants for each specified category.

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

End point timeframe:

Baseline (Day 1) to EOS (up to approximately 47 months)

| End point values | DB: Placebo | DB: Tolebrutinib 60 mg | | |
|---------------------------------------|----------------------------|------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 149 | 323 | | |
| Units: gram/liter | | | | |
| median (inter-quartile range (Q1-Q3)) | | | | |
| IgG (n=149, 320) | 0.350 (-0.280 to 1.310) | -0.085 (-0.845 to 0.665) | | |
| IgM (n=142, 323) | 0.050 (-0.080 to 0.150) | -0.240 (-0.450 to -0.120) | | |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

From first dose of study intervention (Day 1) up to end of follow-up, up to approximately 47 months

Adverse event reporting additional description:

Analysis was performed on safety population. All-cause mortality was performed on randomized population. This was an event-driven (6-month CDP) trial with a variable treatment duration, EOS: up to approximately 47 months.

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 27.0 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|-------------|
| Reporting group title | DB: Placebo |
|-----------------------|-------------|

Reporting group description:

Participants received placebo matched to tolebrutinib orally once daily up to approximately 47 months.

| | |
|-----------------------|-------------------------------------------|
| Reporting group title | OL: Tolebrutinib 60 mg/tolebrutinib 60 mg |
|-----------------------|-------------------------------------------|

Reporting group description:

Participants who received tolebrutinib 60 mg in DB period and achieved 6-month CDP were given the option to continue to receive OL tolebrutinib 60 mg tablet orally once daily up to approximately 39 months in the OL.

| | |
|-----------------------|--------------------------------|
| Reporting group title | OL: Placebo/tolebrutinib 60 mg |
|-----------------------|--------------------------------|

Reporting group description:

Participants who received placebo in DB period and achieved 6-month CDP were given the option to receive OL tolebrutinib 60 mg tablet orally once daily up to approximately 39 months in the OL.

| | |
|-----------------------|------------------------|
| Reporting group title | DB: Tolebrutinib 60 mg |
|-----------------------|------------------------|

Reporting group description:

Participants received tolebrutinib 60 mg tablet orally once daily up to approximately 47 months.

| Serious adverse events | DB: Placebo | OL: Tolebrutinib 60 mg/tolebrutinib 60 mg | OL: Placebo/tolebrutinib 60 mg |
|---------------------------------------------------------------------|-------------------|-------------------------------------------|--------------------------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 39 / 375 (10.40%) | 11 / 120 (9.17%) | 9 / 76 (11.84%) |
| number of deaths (all causes) | 1 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Benign Neoplasm Of Thyroid Gland | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Chronic Myeloid Leukaemia | | | |

| | | | |
|----------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Breast Cancer | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Bladder Cancer Stage 0, With Cancer In Situ | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Bladder Cancer | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Endometrial Adenocarcinoma | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Lung Cancer Metastatic | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Prostate Cancer | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Renal Cell Carcinoma Stage I | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Squamous Cell Carcinoma | | | |

| | | | |
|-------------------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Uterine Leiomyoma | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Vascular disorders | | | |
| Hypertension | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Surgical and medical procedures | | | |
| Assisted Suicide | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Rehabilitation Therapy | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 1 / 76 (1.32%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| General disorders and administration site conditions | | | |
| Gait Disturbance | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Malaise | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Oedema Peripheral | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |

| | | | |
|-------------------------------------------------|-----------------|-----------------|----------------|
| Rebound Effect | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Immune system disorders | | | |
| Hypersensitivity | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 1 / 120 (0.83%) | 0 / 76 (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 |
| Reproductive system and breast disorders | | | |
| Cervical Dysplasia | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Benign Prostatic Hyperplasia | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Acquired Hydrocele | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pneumothorax Spontaneous | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 1 / 76 (1.32%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Psychiatric disorders | | | |
| Delirium | | | |

| | | | |
|-------------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Suicide Attempt | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Depression | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 1 / 76 (1.32%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Investigations | | | |
| Alanine Aminotransferase Increased | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cardiac Murmur | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 1 / 120 (0.83%) | 0 / 76 (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 |
| Injury, poisoning and procedural complications | | | |
| Ankle Fracture | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Craniocerebral Injury | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Cervical Vertebral Fracture | | | |
| subjects affected / exposed | 2 / 375 (0.53%) | 0 / 120 (0.00%) | 0 / 76 (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 |

| | | | |
|-------------------------------------------------|-----------------|-----------------|----------------|
| Brain Contusion | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Fall | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 1 / 120 (0.83%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Extradural Haematoma | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Femoral Neck Fracture | | | |
| subjects affected / exposed | 2 / 375 (0.53%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Femur Fracture | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 1 / 76 (1.32%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Humerus Fracture | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hip Fracture | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Fibula Fracture | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Intentional Overdose | | | |

| | | | |
|-------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Joint Dislocation | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pelvic Fracture | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Lumbar Vertebral Fracture | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Limb Injury | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Post-Traumatic Pain | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Radius Fracture | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 Laceration | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Road Traffic Accident | | | |

| | | | |
|-------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Shoulder Fracture | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 1 / 120 (0.83%) | 0 / 76 (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 |
| Rib Fracture | | | |
| subjects affected / exposed | 2 / 375 (0.53%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Skull Fractured Base | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Spinal Compression Fracture | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Subcutaneous Haematoma | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Ulna Fracture | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Traumatic Haemothorax | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Traumatic Liver Injury | | | |

| | | | |
|-------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Tibia Fracture | | | |
| subjects affected / exposed | 2 / 375 (0.53%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Cardiac disorders | | | |
| Myocardial Infarction | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Atrial Fibrillation | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Left Ventricular Dysfunction | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Acute Myocardial Infarction | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Sinus Node Dysfunction | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Nervous system disorders | | | |
| Brain Hypoxia | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Ischaemic Stroke | | | |

| | | | |
|-------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Generalised Tonic-Clonic Seizure | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Intracranial Hypotension | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Brain Oedema | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| Loss Of Consciousness | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Lumbar Radiculopathy | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Multiple Sclerosis Relapse | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Multiple Sclerosis | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Multiple Sclerosis Pseudo Relapse | | | |

| | | | |
|-------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Monoparesis | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Muscle Spasticity | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Optic Neuritis | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Post-Traumatic Headache | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Parkinsonian Gait | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Paraesthesia | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Restless Legs Syndrome | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Sciatica | | | |

| | | | |
|-------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Syncope | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Seizure | | | |
| subjects affected / exposed | 2 / 375 (0.53%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Subarachnoid Haemorrhage | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Secondary Progressive Multiple Sclerosis | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Trigeminal Neuralgia | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Vertigo Cns Origin | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Ear and labyrinth disorders | | | |
| Acute Vestibular Syndrome | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Vertigo Positional | | | |

| | | | |
|-------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Eye disorders | | | |
| Uveitis | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Retinal Detachment | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Visual Field Defect | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Gastrointestinal disorders | | | |
| Faecaloma | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Abdominal Pain Lower | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Duodenal Ulcer Haemorrhage | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 1 / 76 (1.32%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Functional Gastrointestinal Disorder | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastric Ulcer Haemorrhage | | | |

| | | | |
|-------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Haematemesis | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Haemorrhoidal Haemorrhage | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Megacolon | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Obstructive Pancreatitis | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Terminal Ileitis | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Upper Gastrointestinal Haemorrhage | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Hepatobiliary disorders | | | |
| Cholecystitis Acute | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Drug-Induced Liver Injury | | | |

| | | | |
|--------------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Gallbladder Polyp | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cholecystitis | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hepatic Failure | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Renal and urinary disorders | | | |
| Acute Kidney Injury | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Nephrolithiasis | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Renal Colic | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Musculoskeletal and connective tissue disorders | | | |
| Chondropathy | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 1 / 120 (0.83%) | 0 / 76 (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 |

| | | | |
|-------------------------------------------------|-----------------|-----------------|----------------|
| Muscular Weakness | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 1 / 120 (0.83%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 1 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Neck Pain | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pain In Extremity | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 | | | |
| Appendicitis | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 1 / 76 (1.32%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Bacterial Pyelonephritis | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Covid-19 | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 1 / 120 (0.83%) | 1 / 76 (1.32%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Covid-19 Pneumonia | | | |
| subjects affected / exposed | 2 / 375 (0.53%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Cellulitis | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Influenza | | | |

| | | | |
|-------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 375 (0.00%) | 1 / 120 (0.83%) | 0 / 76 (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 |
| Herpes Zoster | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Gastroenteritis Viral | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastroenteritis | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cystitis Bacterial | | | |
| subjects affected / exposed | 2 / 375 (0.53%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Cystitis | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Pyelonephritis | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 1 / 76 (1.32%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pneumonia Viral | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Pneumonia Pneumococcal | | | |

| | | | |
|----------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pneumonia Bacterial | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Pneumonia | | | |
| subjects affected / exposed | 3 / 375 (0.80%) | 1 / 120 (0.83%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 1 / 3 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pharyngitis | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pyelonephritis Acute | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 1 / 76 (1.32%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Upper Respiratory Tract Infection Bacterial | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 1 / 120 (0.83%) | 0 / 76 (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 |
| Upper Respiratory Tract Infection | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Sinusitis | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 0 / 120 (0.00%) | 0 / 76 (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 |
| Sepsis | | | |

| | | | |
|-------------------------------------------------|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Respiratory Tract Infection | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 1 / 120 (0.83%) | 0 / 76 (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 |
| Pyelonephritis Chronic | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Wound Infection | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Viral Upper Respiratory Tract Infection | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 1 / 120 (0.83%) | 0 / 76 (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 |
| Varicella Zoster Pneumonia | | | |
| subjects affected / exposed | 0 / 375 (0.00%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Urosepsis | | | |
| subjects affected / exposed | 3 / 375 (0.80%) | 0 / 120 (0.00%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 1 / 3 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Urinary Tract Infection | | | |
| subjects affected / exposed | 1 / 375 (0.27%) | 2 / 120 (1.67%) | 0 / 76 (0.00%) |
| occurrences causally related to treatment / all | 0 / 3 | 0 / 2 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

Serious adverse events

DB: Tolebrutinib 60 mg

| | | | |
|---------------------------------------------------------------------|--------------------|--|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 113 / 752 (15.03%) | | |
| number of deaths (all causes) | 2 | | |
| number of deaths resulting from adverse events | 1 | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Benign Neoplasm Of Thyroid Gland | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Chronic Myeloid Leukaemia | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Breast Cancer | | | |
| subjects affected / exposed | 2 / 752 (0.27%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Bladder Cancer Stage 0, With Cancer In Situ | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Bladder Cancer | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Endometrial Adenocarcinoma | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Lung Cancer Metastatic | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Prostate Cancer | | | |

| | | | |
|------------------------------------------------------|-----------------|--|--|
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Renal Cell Carcinoma Stage I | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Squamous Cell Carcinoma | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Uterine Leiomyoma | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Vascular disorders | | | |
| Hypertension | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Surgical and medical procedures | | | |
| Assisted Suicide | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 1 | | |
| Rehabilitation Therapy | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| General disorders and administration site conditions | | | |
| Gait Disturbance | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

| | | | |
|-------------------------------------------------|-----------------|--|--|
| Malaise | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Oedema Peripheral | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Rebound Effect | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Immune system disorders | | | |
| Hypersensitivity | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Reproductive system and breast disorders | | | |
| Cervical Dysplasia | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Benign Prostatic Hyperplasia | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Acquired Hydrocele | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough | | | |

| | | | |
|-------------------------------------------------|-----------------|--|--|
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumothorax Spontaneous | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Psychiatric disorders | | | |
| Delirium | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Suicide Attempt | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Depression | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Investigations | | | |
| Alanine Aminotransferase Increased | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cardiac Murmur | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Injury, poisoning and procedural complications | | | |
| Ankle Fracture | | | |
| subjects affected / exposed | 2 / 752 (0.27%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

| | | | | |
|-------------------------------------------------|-----------------|--|--|--|
| Craniocerebral Injury | | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Cervical Vertebral Fracture | | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Brain Contusion | | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Fall | | | | |
| subjects affected / exposed | 3 / 752 (0.40%) | | | |
| occurrences causally related to treatment / all | 0 / 3 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Extradural Haematoma | | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Femoral Neck Fracture | | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Femur Fracture | | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Humerus Fracture | | | | |
| subjects affected / exposed | 2 / 752 (0.27%) | | | |
| occurrences causally related to treatment / all | 0 / 2 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Hip Fracture | | | | |

| | | | |
|-------------------------------------------------|-----------------|--|--|
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Fibula Fracture | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Intentional Overdose | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Joint Dislocation | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pelvic Fracture | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Lumbar Vertebral Fracture | | | |
| subjects affected / exposed | 2 / 752 (0.27%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Limb Injury | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Post-Traumatic Pain | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Radius Fracture | | | |

| | | | |
|-------------------------------------------------|-----------------|--|--|
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Skin Laceration | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Road Traffic Accident | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Shoulder Fracture | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Rib Fracture | | | |
| subjects affected / exposed | 2 / 752 (0.27%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Skull Fractured Base | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Spinal Compression Fracture | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Subcutaneous Haematoma | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Ulna Fracture | | | |

| | | | |
|-------------------------------------------------|-----------------|--|--|
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Traumatic Haemothorax | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Traumatic Liver Injury | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Tibia Fracture | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cardiac disorders | | | |
| Myocardial Infarction | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Atrial Fibrillation | | | |
| subjects affected / exposed | 2 / 752 (0.27%) | | |
| occurrences causally related to treatment / all | 1 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Left Ventricular Dysfunction | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Acute Myocardial Infarction | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Sinus Node Dysfunction | | | |

| | | | |
|-------------------------------------------------|-----------------|--|--|
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Nervous system disorders | | | |
| Brain Hypoxia | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Ischaemic Stroke | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Generalised Tonic-Clonic Seizure | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Intracranial Hypotension | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Brain Oedema | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Loss Of Consciousness | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Lumbar Radiculopathy | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Multiple Sclerosis Relapse | | | |

| | | | |
|-------------------------------------------------|-----------------|--|--|
| subjects affected / exposed | 8 / 752 (1.06%) | | |
| occurrences causally related to treatment / all | 0 / 8 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Multiple Sclerosis | | | |
| subjects affected / exposed | 3 / 752 (0.40%) | | |
| occurrences causally related to treatment / all | 0 / 3 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Multiple Sclerosis Pseudo Relapse | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Monoparesis | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Muscle Spasticity | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Optic Neuritis | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Post-Traumatic Headache | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Parkinsonian Gait | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Paraesthesia | | | |

| | | | |
|-------------------------------------------------|-----------------|--|--|
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Restless Legs Syndrome | | | |
| subjects affected / exposed | 2 / 752 (0.27%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Sciatica | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Syncope | | | |
| subjects affected / exposed | 3 / 752 (0.40%) | | |
| occurrences causally related to treatment / all | 0 / 3 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Seizure | | | |
| subjects affected / exposed | 2 / 752 (0.27%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Subarachnoid Haemorrhage | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Secondary Progressive Multiple Sclerosis | | | |
| subjects affected / exposed | 2 / 752 (0.27%) | | |
| occurrences causally related to treatment / all | 0 / 3 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Trigeminal Neuralgia | | | |
| subjects affected / exposed | 3 / 752 (0.40%) | | |
| occurrences causally related to treatment / all | 0 / 3 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Vertigo Cns Origin | | | |

| | | | |
|-------------------------------------------------|-----------------|--|--|
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Ear and labyrinth disorders | | | |
| Acute Vestibular Syndrome | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Vertigo Positional | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Eye disorders | | | |
| Uveitis | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Retinal Detachment | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Visual Field Defect | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Gastrointestinal disorders | | | |
| Faecaloma | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Abdominal Pain Lower | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

| | | | | |
|-------------------------------------------------|-----------------|--|--|--|
| Duodenal Ulcer Haemorrhage | | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Functional Gastrointestinal Disorder | | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Gastric Ulcer Haemorrhage | | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Haematemesis | | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Haemorrhoidal Haemorrhage | | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Megacolon | | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Obstructive Pancreatitis | | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Terminal Ileitis | | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Upper Gastrointestinal Haemorrhage | | | | |

| | | | |
|-------------------------------------------------|-----------------|--|--|
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Hepatobiliary disorders | | | |
| Cholecystitis Acute | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Drug-Induced Liver Injury | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Gallbladder Polyp | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cholecystitis | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Hepatic Failure | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 1 / 1 | | |
| Renal and urinary disorders | | | |
| Acute Kidney Injury | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Nephrolithiasis | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Renal Colic | | | |

| | | | |
|--------------------------------------------------------|-----------------|--|--|
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Musculoskeletal and connective tissue disorders | | | |
| Chondropathy | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Muscular Weakness | | | |
| subjects affected / exposed | 2 / 752 (0.27%) | | |
| occurrences causally related to treatment / all | 0 / 3 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Neck Pain | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pain In Extremity | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Infections and infestations | | | |
| Appendicitis | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Bacterial Pyelonephritis | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 2 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Covid-19 | | | |
| subjects affected / exposed | 7 / 752 (0.93%) | | |
| occurrences causally related to treatment / all | 0 / 7 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

| | | | | |
|-------------------------------------------------|-----------------|--|--|--|
| Covid-19 Pneumonia | | | | |
| subjects affected / exposed | 8 / 752 (1.06%) | | | |
| occurrences causally related to treatment / all | 0 / 8 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Cellulitis | | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Influenza | | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Herpes Zoster | | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Gastroenteritis Viral | | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Gastroenteritis | | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Cystitis Bacterial | | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | | |
| occurrences causally related to treatment / all | 0 / 3 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Cystitis | | | | |
| subjects affected / exposed | 2 / 752 (0.27%) | | | |
| occurrences causally related to treatment / all | 2 / 3 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Pyelonephritis | | | | |

| | | | |
|-------------------------------------------------|-----------------|--|--|
| subjects affected / exposed | 3 / 752 (0.40%) | | |
| occurrences causally related to treatment / all | 1 / 3 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumonia Viral | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumonia Pneumococcal | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumonia Bacterial | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumonia | | | |
| subjects affected / exposed | 5 / 752 (0.66%) | | |
| occurrences causally related to treatment / all | 2 / 5 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pharyngitis | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pyelonephritis Acute | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Upper Respiratory Tract Infection Bacterial | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Upper Respiratory Tract Infection | | | |

| | | | |
|-------------------------------------------------|-----------------|--|--|
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Sinusitis | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Sepsis | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Respiratory Tract Infection | | | |
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pyelonephritis Chronic | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Wound Infection | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Viral Upper Respiratory Tract Infection | | | |
| subjects affected / exposed | 2 / 752 (0.27%) | | |
| occurrences causally related to treatment / all | 1 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Varicella Zoster Pneumonia | | | |
| subjects affected / exposed | 1 / 752 (0.13%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Urosepsis | | | |

| | | | |
|-------------------------------------------------|-----------------|--|--|
| subjects affected / exposed | 0 / 752 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Urinary Tract Infection | | | |
| subjects affected / exposed | 3 / 752 (0.40%) | | |
| occurrences causally related to treatment / all | 1 / 3 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

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

| Non-serious adverse events | DB: Placebo | OL: Tolebrutinib 60 mg/tolebrutinib 60 mg | OL: Placebo/tolebrutinib 60 mg |
|-------------------------------------------------------|--------------------|-------------------------------------------|--------------------------------|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 182 / 375 (48.53%) | 41 / 120 (34.17%) | 25 / 76 (32.89%) |
| Injury, poisoning and procedural complications | | | |
| Accidental Overdose | | | |
| subjects affected / exposed | 19 / 375 (5.07%) | 3 / 120 (2.50%) | 0 / 76 (0.00%) |
| occurrences (all) | 22 | 3 | 0 |
| Fall | | | |
| subjects affected / exposed | 40 / 375 (10.67%) | 6 / 120 (5.00%) | 4 / 76 (5.26%) |
| occurrences (all) | 54 | 7 | 4 |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 27 / 375 (7.20%) | 4 / 120 (3.33%) | 2 / 76 (2.63%) |
| occurrences (all) | 31 | 4 | 2 |
| Musculoskeletal and connective tissue disorders | | | |
| Arthralgia | | | |
| subjects affected / exposed | 19 / 375 (5.07%) | 2 / 120 (1.67%) | 0 / 76 (0.00%) |
| occurrences (all) | 21 | 2 | 0 |
| Back Pain | | | |
| subjects affected / exposed | 24 / 375 (6.40%) | 3 / 120 (2.50%) | 1 / 76 (1.32%) |
| occurrences (all) | 25 | 3 | 1 |
| Infections and infestations | | | |
| Influenza | | | |

| | | | |
|-----------------------------------------------------------------------------|-------------------------|-------------------------|------------------------|
| subjects affected / exposed occurrences (all) | 13 / 375 (3.47%) 14 | 5 / 120 (4.17%) 6 | 2 / 76 (2.63%) 2 |
| Covid-19 subjects affected / exposed occurrences (all) | 85 / 375 (22.67%) 96 | 14 / 120 (11.67%) 14 | 4 / 76 (5.26%) 4 |
| Nasopharyngitis subjects affected / exposed occurrences (all) | 26 / 375 (6.93%) 35 | 8 / 120 (6.67%) 10 | 2 / 76 (2.63%) 3 |
| Urinary Tract Infection subjects affected / exposed occurrences (all) | 49 / 375 (13.07%) 81 | 12 / 120 (10.00%) 19 | 14 / 76 (18.42%) 22 |

| | | | |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------|--|--|
| Non-serious adverse events | DB: Tolebrutinib 60 mg | | |
| Total subjects affected by non-serious adverse events subjects affected / exposed | 368 / 752 (48.94%) | | |
| Injury, poisoning and procedural complications Accidental Overdose subjects affected / exposed occurrences (all) | 25 / 752 (3.32%) 29 | | |
| Fall subjects affected / exposed occurrences (all) | 70 / 752 (9.31%) 106 | | |
| Nervous system disorders Headache subjects affected / exposed occurrences (all) | 54 / 752 (7.18%) 79 | | |
| Musculoskeletal and connective tissue disorders Arthralgia subjects affected / exposed occurrences (all) | 49 / 752 (6.52%) 55 | | |
| Back Pain subjects affected / exposed occurrences (all) | 47 / 752 (6.25%) 56 | | |
| Infections and infestations Influenza | | | |

| | | | |
|-----------------------------|--------------------|--|--|
| subjects affected / exposed | 41 / 752 (5.45%) | | |
| occurrences (all) | 60 | | |
| Covid-19 | | | |
| subjects affected / exposed | 185 / 752 (24.60%) | | |
| occurrences (all) | 225 | | |
| Nasopharyngitis | | | |
| subjects affected / exposed | 70 / 752 (9.31%) | | |
| occurrences (all) | 94 | | |
| Urinary Tract Infection | | | |
| subjects affected / exposed | 82 / 752 (10.90%) | | |
| occurrences (all) | 152 | | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15 May 2020 | The overall rationale for this amended protocol consisted of regulatory requirements including addition of a relapse adjudication committee, change in stratification factor, removal of an endpoint and addition of a benefit-risk evaluation of the study in the context of the Coronavirus Disease 2019 pandemic. |
| 03 November 2020 | The overall rationale for this amended protocol was to respond to the feedback from Investigators with regard to the inclusion/exclusion criteria. |
| 26 July 2021 | The primary reason for this amendment was the availability of new information from drug-drug interaction studies. |
| 21 December 2021 | The primary reason for this amendment was to facilitate operational feasibility and reduce complexity, without compromising study integrity. |
| 23 May 2022 | The primary reason for this amended protocol was to update liver related exclusion criteria and monitor to mitigate risk of drug-induced liver injury (DILI). |
| 13 September 2022 | The rationale for this protocol amendment was to further reduce the risk of DILI by increasing the intensity of liver monitoring. |
| 14 December 2022 | The rationale for this protocol amendment was to clarify information about DILI and update the alanine aminotransferase (ALT) increase algorithm in relation to the risk of DILI. |
| 28 September 2023 | The rationale for this protocol amendment was to clarify the language and requirements for the use of OL tolebrutinib in participants who had achieved 6-month CDP and to update the testing requirements in the "increase in ALT algorithm" in accordance with the Council for International Organization of Medical Sciences working group on DILI consensus report. |
| 20 November 2023 | The rationale for this protocol amendment was to clarify the liver function monitoring requirements, update the testing requirements in the "increase in ALT algorithm", and update the concomitant medications that were prohibited during the conduct of the study as per health authority request. |
| 20 December 2023 | The rationale for this protocol amendment was to update the liver function test monitoring as per Health Authority request. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported