



Clinical trial results:

A single-arm, multicentre, phase IIIb study to evaluate safety, efficacy and pharmacokinetic (PK) of subcutaneous (SC) rituximab administered during induction phase or maintenance in previously untreated patients with CD20+ diffuse large B cell lymphoma (DLBCL) or follicular lymphoma (FL)

Summary

| | |
|--------------------------|----------------|
| EudraCT number | 2013-000647-12 |
| Trial protocol | IT |
| Global end of trial date | 28 May 2019 |

Results information

| | |
|--------------------------------|--------------|
| Result version number | v1 |
| This version publication date | 14 June 2020 |
| First version publication date | 14 June 2020 |

Trial information

Trial identification

| | |
|-----------------------|---------|
| Sponsor protocol code | ML28881 |
|-----------------------|---------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT01889069 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | F. Hoffmann-La Roche, Ltd. |
| Sponsor organisation address | F. Hoffmann-La Roche, Ltd., Basel, Switzerland, CH-4070 |
| Public contact | Roche Trial Information Hotline, F. Hoffmann-La Roche, Ltd., +41 616878333, global.trial_information@roche.com |
| Scientific contact | Roche Trial Information Hotline, F. Hoffmann-La Roche, Ltd., +41 616878333, genentech@druginfo.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 | 28 May 2019 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 28 May 2019 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

The main objective of the study was to evaluate the incidence of administration-associated reactions (AARs) following multiple doses of subcutaneous (SC) rituximab during Induction and/or Maintenance therapy in subjects with CD20+ follicular non-Hodgkin's lymphoma (NHL) or CD20+ diffuse large B-cell lymphoma (DLBCL) who had previously received at least one dose of intravenous (IV) rituximab.

Protection of trial subjects:

All study subjects were required to read and sign an Informed Consent Form.

Background therapy: -

Evidence for comparator: -

| | |
|---|-------------------|
| Actual start date of recruitment | 11 September 2013 |
| Long term follow-up planned | Yes |
| Long term follow-up rationale | Safety |
| Long term follow-up duration | 2 Years |
| Independent data monitoring committee (IDMC) involvement? | No |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|------------|
| Country: Number of subjects enrolled | Italy: 158 |
| Worldwide total number of subjects | 158 |
| EEA total number of subjects | 158 |

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) | 107 |
| From 65 to 84 years | 51 |

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

Subject disposition

Recruitment

Recruitment details:

The study was conducted at 37 investigational centers in Italy.

Pre-assignment

Screening details:

Adult participants with CD20+ diffuse large B-cell lymphoma or CD20+ follicular lymphoma.

Total overall participants enrolled in the study was 159, however for the subject disposition and baseline characteristics the enrolled was 158 as one participant discontinued the study prior to treatment.

Period 1

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

Arms

| | |
|-----------|-----------------------------|
| Arm title | Subcutaneous (SC) Rituximab |
|-----------|-----------------------------|

Arm description:

Participants will receive at least 4 doses of rituximab 1400 mg SC once a month during the Induction period, and at least 6 doses of rituximab 1400 mg SC once every two months during the Maintenance period, in addition to standard chemotherapy. Standard chemotherapy regimen included cyclophosphamide, vincristine, doxorubicin and prednisone (CHOP); or cyclophosphamide, vincristine and prednisone (CVP); or bendamustine as per standard local practice.

| | |
|--|------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | MabThera Rituxan |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Solution for injection |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

1400 mg of rituximab was injected subcutaneously (SC)

| Number of subjects in period 1 | Subcutaneous (SC) Rituximab |
|--------------------------------|-----------------------------|
| Started | 158 |
| Completed | 113 |
| Not completed | 45 |
| Consent withdrawn by subject | 3 |
| Progression of Disease | 14 |
| Death | 18 |
| Not Specified | 4 |
| Lost to follow-up | 6 |

Baseline characteristics

Reporting groups

| | |
|-----------------------|-----------------------------|
| Reporting group title | Subcutaneous (SC) Rituximab |
|-----------------------|-----------------------------|

Reporting group description:

Participants will receive at least 4 doses of rituximab 1400 mg SC once a month during the Induction period, and at least 6 doses of rituximab 1400 mg SC once every two months during the Maintenance period, in addition to standard chemotherapy. Standard chemotherapy regimen included cyclophosphamide, vincristine, doxorubicin and prednisone (CHOP); or cyclophosphamide, vincristine and prednisone (CVP); or bendamustine as per standard local practice.

| Reporting group values | Subcutaneous (SC) Rituximab | Total | |
|---|--------------------------------|-------|--|
| Number of subjects | 158 | 158 | |
| Age categorical | | | |
| Units: Subjects | | | |
| In utero | 0 | 0 | |
| Preterm newborn infants (gestational age < 37 wks) | 0 | 0 | |
| Newborns (0-27 days) | 0 | 0 | |
| Infants and toddlers (28 days-23 months) | 0 | 0 | |
| Children (2-11 years) | 0 | 0 | |
| Adolescents (12-17 years) | 0 | 0 | |
| Adults (18-64 years) | 107 | 107 | |
| From 65-84 years | 51 | 51 | |
| 85 years and over | 0 | 0 | |
| Age Continuous | | | |
| Units: years | | | |
| arithmetic mean | 58.7 | | |
| standard deviation | ± 11.28 | - | |
| Sex: Female, Male | | | |
| Units: Participants | | | |
| Female | 72 | 72 | |
| Male | 86 | 86 | |
| Ethnicity (NIH/OMB) | | | |
| Units: Subjects | | | |
| Hispanic or Latino | 9 | 9 | |
| Not Hispanic or Latino | 131 | 131 | |
| Unknown or Not Reported | 18 | 18 | |

Subject analysis sets

| | |
|----------------------------|---------------------------------------|
| Subject analysis set title | Diffuse Large B-Cell Lymphoma (DLBCL) |
|----------------------------|---------------------------------------|

| | |
|---------------------------|--------------------|
| Subject analysis set type | Sub-group analysis |
|---------------------------|--------------------|

Subject analysis set description:

Participants with DLBCL, who had received at least 4 doses of rituximab 1400 mg SC once a month during the treatment phase, up to a maximum of 7 cycles, in addition to standard chemotherapy. Standard chemotherapy regimen included cyclophosphamide, vincristine, doxorubicin and prednisone (CHOP); or cyclophosphamide, vincristine and prednisone (CVP); as per standard local practice.

| | |
|----------------------------|--------------------------|
| Subject analysis set title | Follicular Lymphoma (FL) |
|----------------------------|--------------------------|

| | |
|---------------------------|--------------------|
| Subject analysis set type | Sub-group analysis |
|---------------------------|--------------------|

Subject analysis set description:

Participants with CD20+ non-Hodgkin's (FL), who had received at least 4 doses of rituximab 1400 mg SC once a month during the Induction period, and at least 6 doses of rituximab 1400 mg SC once every two months during the Maintenance period, in addition to standard chemotherapy. Standard chemotherapy regimen included cyclophosphamide, vincristine, doxorubicin and prednisone (CHOP); or cyclophosphamide, vincristine and prednisone (CVP); or bendamustine as per standard local practice.

| | |
|----------------------------|---|
| Subject analysis set title | Diffuse Large B-Cell Lymphoma (DLBCL) R-CHOP-14 |
| Subject analysis set type | Sub-group analysis |

Subject analysis set description:

DLBCL chemotherapy regimen cyclophosphamide, oncovine (vincristine), doxorubicin, prednisone/prednisolone given every 14 days (R-CHOP-14)

| | |
|----------------------------|---|
| Subject analysis set title | Diffuse Large B-Cell Lymphoma (DLBCL) R-CHOP-21 |
| Subject analysis set type | Sub-group analysis |

Subject analysis set description:

DLBCL chemotherapy regimen cyclophosphamide, oncovine (vincristine), doxorubicin, prednisone/prednisolone given every 21 days (R-CHOP-21)

| Reporting group values | Diffuse Large B-Cell Lymphoma (DLBCL) | Follicular Lymphoma (FL) | Diffuse Large B-Cell Lymphoma (DLBCL) R-CHOP-14 |
|--|---------------------------------------|--------------------------|---|
| Number of subjects | 72 | 86 | 4 |
| Age categorical Units: Subjects | | | |
| In utero | 0 | 0 | |
| Preterm newborn infants (gestational age < 37 wks) | 0 | 0 | |
| Newborns (0-27 days) | 0 | 0 | |
| Infants and toddlers (28 days-23 months) | 0 | 0 | |
| Children (2-11 years) | 0 | 0 | |
| Adolescents (12-17 years) | 0 | 0 | |
| Adults (18-64 years) | 42 | 65 | |
| From 65-84 years | 30 | 21 | |
| 85 years and over | 0 | 0 | |
| Age Continuous Units: years | | | |
| arithmetic mean | 59.7 | 57.8 | |
| standard deviation | ± 12.70 | ± 9.92 | ± |
| Sex: Female, Male Units: Participants | | | |
| Female | 28 | 44 | |
| Male | 44 | 42 | |
| Ethnicity (NIH/OMB) Units: Subjects | | | |
| Hispanic or Latino | 4 | 5 | |
| Not Hispanic or Latino | 59 | 72 | |
| Unknown or Not Reported | 9 | 9 | |

| Reporting group values | Diffuse Large B-Cell Lymphoma (DLBCL) R-CHOP-21 | | |
|------------------------------------|---|--|--|
| Number of subjects | 31 | | |
| Age categorical Units: Subjects | | | |
| In utero | | | |

| | | | |
|--|---|--|--|
| Preterm newborn infants (gestational age < 37 wks) Newborns (0-27 days) Infants and toddlers (28 days-23 months) Children (2-11 years) Adolescents (12-17 years) Adults (18-64 years) From 65-84 years 85 years and over | | | |
| Age Continuous Units: years arithmetic mean standard deviation | ± | | |
| Sex: Female, Male Units: Participants | | | |
| Female Male | | | |
| Ethnicity (NIH/OMB) Units: Subjects | | | |
| Hispanic or Latino Not Hispanic or Latino Unknown or Not Reported | | | |

End points

End points reporting groups

| | |
|-----------------------|-----------------------------|
| Reporting group title | Subcutaneous (SC) Rituximab |
|-----------------------|-----------------------------|

Reporting group description:

Participants will receive at least 4 doses of rituximab 1400 mg SC once a month during the Induction period, and at least 6 doses of rituximab 1400 mg SC once every two months during the Maintenance period, in addition to standard chemotherapy. Standard chemotherapy regimen included cyclophosphamide, vincristine, doxorubicin and prednisone (CHOP); or cyclophosphamide, vincristine and prednisone (CVP); or bendamustine as per standard local practice.

| | |
|----------------------------|---------------------------------------|
| Subject analysis set title | Diffuse Large B-Cell Lymphoma (DLBCL) |
|----------------------------|---------------------------------------|

| | |
|---------------------------|--------------------|
| Subject analysis set type | Sub-group analysis |
|---------------------------|--------------------|

Subject analysis set description:

Participants with DLBCL, who had received at least 4 doses of rituximab 1400 mg SC once a month during the treatment phase, up to a maximum of 7 cycles, in addition to standard chemotherapy. Standard chemotherapy regimen included cyclophosphamide, vincristine, doxorubicin and prednisone (CHOP); or cyclophosphamide, vincristine and prednisone (CVP); as per standard local practice.

| | |
|----------------------------|--------------------------|
| Subject analysis set title | Follicular Lymphoma (FL) |
|----------------------------|--------------------------|

| | |
|---------------------------|--------------------|
| Subject analysis set type | Sub-group analysis |
|---------------------------|--------------------|

Subject analysis set description:

Participants with CD20+ non-Hodgkin's (FL), who had received at least 4 doses of rituximab 1400 mg SC once a month during the Induction period, and at least 6 doses of rituximab 1400 mg SC once every two months during the Maintenance period, in addition to standard chemotherapy. Standard chemotherapy regimen included cyclophosphamide, vincristine, doxorubicin and prednisone (CHOP); or cyclophosphamide, vincristine and prednisone (CVP); or bendamustine as per standard local practice.

| | |
|----------------------------|---|
| Subject analysis set title | Diffuse Large B-Cell Lymphoma (DLBCL) R-CHOP-14 |
|----------------------------|---|

| | |
|---------------------------|--------------------|
| Subject analysis set type | Sub-group analysis |
|---------------------------|--------------------|

Subject analysis set description:

DLBCL chemotherapy regimen cyclophosphamide, oncovine (vincristine), doxorubicin, prednisone/prednisolone given every 14 days (R-CHOP-14)

| | |
|----------------------------|---|
| Subject analysis set title | Diffuse Large B-Cell Lymphoma (DLBCL) R-CHOP-21 |
|----------------------------|---|

| | |
|---------------------------|--------------------|
| Subject analysis set type | Sub-group analysis |
|---------------------------|--------------------|

Subject analysis set description:

DLBCL chemotherapy regimen cyclophosphamide, oncovine (vincristine), doxorubicin, prednisone/prednisolone given every 21 days (R-CHOP-21)

Primary: Percentage of Participants with Administration-Associated Reactions (AAR)

| | |
|-----------------|--|
| End point title | Percentage of Participants with Administration-Associated Reactions (AAR) ^[1] |
|-----------------|--|

End point description:

AARs were defined as all adverse events (AEs) occurring within 24 hours of rituximab administration and which were considered related to study drug. AARs included infusion/injection-related reactions (IIRRs), injection-site reactions, administration site conditions and all symptoms thereof. Grading was completed according to the National Cancer Institute (NCI) Common Terminology Criteria for Adverse Events (CTCAE), version 4.0.

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

End point timeframe:

Baseline up to 54 months

Notes:

[1] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: No statistical analyses have been performed. Only descriptive statistics was planned to be reported in the endpoint.

| End point values | Subcutaneous (SC) Rituximab | Diffuse Large B-Cell Lymphoma (DLBCL) | Follicular Lymphoma (FL) | |
|--|-----------------------------|---------------------------------------|--------------------------|--|
| Subject group type | Reporting group | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 158 | 72 | 86 | |
| Units: Percentage of Participants | | | | |
| number (not applicable) | | | | |
| At least One AAR | 6.3 | 4.2 | 8.1 | |
| At Least One AAR Grade ≥ 3 | 0 | 0 | 0 | |
| Cutaneous and Soft Tissue AARs (Localized) | 5.1 | 1.4 | 8.1 | |
| Cutaneous and Soft Tissue AARs (Non-Localized) | 1.3 | 2.8 | 0 | |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants with At Least One Grade ≥ 3 Treatment-Emergent Adverse Events (TEAEs)

| | |
|-----------------|---|
| End point title | Percentage of Participants with At Least One Grade ≥ 3 Treatment-Emergent Adverse Events (TEAEs) |
|-----------------|---|

End point description:

An AE was any untoward medical occurrence in a participant administered a pharmaceutical product and which did not necessarily have to have a causal relationship with the treatment. An adverse event was therefore any unfavourable and unintended sign (including an abnormal laboratory finding, for example), symptom, or disease temporally associated with the use of a pharmaceutical product, whether or not considered related to the pharmaceutical product. Pre-existing conditions which worsened during the study were also considered as adverse events. Grading was completed according to the CTCAE, version 4.0.

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

End point timeframe:

Baseline up to 54 months

| End point values | Subcutaneous (SC) Rituximab | Diffuse Large B-Cell Lymphoma (DLBCL) | Follicular Lymphoma (FL) | |
|-----------------------------------|-----------------------------|---------------------------------------|--------------------------|--|
| Subject group type | Reporting group | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 158 | 72 | 86 | |
| Units: Percentage of Participants | | | | |
| number (not applicable) | 46.8 | 51.4 | 43.0 | |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants with At Least One Grade \geq 3 Infusion/ Injection Related Reactions (IIRRs)

| | |
|-----------------|---|
| End point title | Percentage of Participants with At Least One Grade \geq 3 Infusion/ Injection Related Reactions (IIRRs) |
|-----------------|---|

End point description:

Grading of IIRRs was completed according to the CTCAE, version 4.0.

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

End point timeframe:

Baseline up to 54 months

| End point values | Subcutaneous (SC) Rituximab | Diffuse Large B-Cell Lymphoma (DLBCL) | Follicular Lymphoma (FL) | |
|-----------------------------------|-----------------------------|---------------------------------------|--------------------------|--|
| Subject group type | Reporting group | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 158 | 72 | 86 | |
| Units: Percentage of Participants | | | | |
| number (not applicable) | 0 | 0 | 0 | |

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants with At Least One Treatment-Emergent Serious Adverse Events

| | |
|-----------------|--|
| End point title | Percentage of Participants with At Least One Treatment-Emergent Serious Adverse Events |
|-----------------|--|

End point description:

SAE was defined as any experience that suggested a significant hazard, contraindication, side effect, or precaution, and fulfilled any of the following criteria: fatal (resulted in death), life-threatening, required in-patient hospitalization or prolongation of existing hospitalization, resulted in persistent or significant disability/incapacity, was a congenital anomaly/ birth defect, was medically significant or required intervention to prevent any of the other outcomes listed here.

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

End point timeframe:

Baseline up to 54 months

| End point values | Subcutaneous (SC) Rituximab | Diffuse Large B-Cell Lymphoma (DLBCL) | Follicular Lymphoma (FL) | |
|-----------------------------------|-----------------------------|---------------------------------------|--------------------------|--|
| Subject group type | Reporting group | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 158 | 72 | 86 | |
| Units: Percentage of Participants | | | | |
| number (not applicable) | 31.0 | 36.1 | 26.7 | |

Statistical analyses

No statistical analyses for this end point

Secondary: Event-Free Survival (EFS) According to IWG Response Criteria

| | |
|-----------------|--|
| End point title | Event-Free Survival (EFS) According to IWG Response Criteria |
|-----------------|--|

End point description:

EFS was defined as the time from first dose of rituximab to first occurrence of progression or relapse, according to the International Working Group (IWG) response criteria or other country standards, or initiation of a non-protocol-specified anti-lymphoma therapy or death, whichever occurred first. The value '9999' indicates the median EFS was not estimable due to the low number of patients with events.

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

End point timeframe:

Day 1 up to first occurrence of progression or relapse, or initiation of a non-protocol-specified anti-lymphoma therapy or death, whichever occurs first (up to maximum 54 months)

| End point values | Subcutaneous (SC) Rituximab | Diffuse Large B-Cell Lymphoma (DLBCL) | Follicular Lymphoma (FL) | |
|----------------------------------|-----------------------------|---------------------------------------|--------------------------|--|
| Subject group type | Reporting group | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 158 | 72 | 86 | |
| Units: months | | | | |
| median (confidence interval 95%) | 9999 (9999 to 9999) | 9999 (9999 to 9999) | 9999 (9999 to 9999) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Progression-Free Survival (PFS) According to IWG Response Criteria

| | |
|-----------------|--|
| End point title | Progression-Free Survival (PFS) According to IWG Response Criteria |
|-----------------|--|

End point description:

PFS was defined as the time from first dose of rituximab to the first occurrence of disease progression or relapse, according to the International Working Group (IWG) response criteria or other country standards, or death from any cause, whichever occurred first. The value '9999' indicates the median PFS was not estimable due to the low number of patients with events.

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

End point timeframe:

Day 1 up to first occurrence of progression or relapse, or death, whichever occurs first (up to maximum 54 months)

| End point values | Subcutaneous (SC) Rituximab | Diffuse Large B-Cell Lymphoma (DLBCL) | Follicular Lymphoma (FL) | |
|----------------------------------|-----------------------------|---------------------------------------|--------------------------|--|
| Subject group type | Reporting group | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 158 | 72 | 86 | |
| Units: months | | | | |
| median (confidence interval 95%) | 9999 (9999 to 9999) | 9999 (9999 to 9999) | 9999 (9999 to 9999) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Overall Survival (OS)

| | |
|--|-----------------------|
| End point title | Overall Survival (OS) |
| End point description: | |
| OS was defined as the time from first dose of rituximab to death from any cause. The value '9999' indicates median OS was not estimable due to the low number of patients with events (i.e., that died). | |
| End point type | Secondary |
| End point timeframe: | |
| Day 1 until death (up to maximum 54 months) | |

| End point values | Subcutaneous (SC) Rituximab | Diffuse Large B-Cell Lymphoma (DLBCL) | Follicular Lymphoma (FL) | |
|----------------------------------|-----------------------------|---------------------------------------|--------------------------|--|
| Subject group type | Reporting group | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 158 | 72 | 86 | |
| Units: months | | | | |
| median (confidence interval 95%) | 9999 (9999 to 9999) | 9999 (9999 to 9999) | 9999 (9999 to 9999) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Disease-Free Survival (DFS) According to IWG Response Criteria

| | |
|--|--|
| End point title | Disease-Free Survival (DFS) According to IWG Response Criteria |
| End point description: | |
| DFS assessed in participants achieving complete response (CR) including complete response unconfirmed (Cru) and was defined as the period from 4 to 8 weeks after end of Induction period up to relapse or death from any cause, whichever occurred first. | |

| | |
|--|-----------|
| End point type | Secondary |
| End point timeframe: | |
| From 4 to 8 weeks after end of Induction period up to relapse or death from any cause, whichever occurs first (up to maximum 54 months) (end of Induction period = up to 8 months) | |

| End point values | Subcutaneous (SC) Rituximab | Diffuse Large B-Cell Lymphoma (DLBCL) | Follicular Lymphoma (FL) | |
|---|-----------------------------|---------------------------------------|--------------------------|--|
| Subject group type | Reporting group | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 0 ^[2] | 72 ^[3] | 86 ^[4] | |
| Units: Months | | | | |
| arithmetic mean (confidence interval 95%) | (to) | 9999 (9999 to 9999) | 9999 (9999 to 9999) | |

Notes:

[2] - DFS analysis was not performed.

[3] - DFS analysis was not performed.

[4] - DFS analysis was not performed.

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants with Complete Response (CR) According to IWG Response Criteria

| | |
|-----------------|---|
| End point title | Percentage of Participants with Complete Response (CR) According to IWG Response Criteria |
|-----------------|---|

End point description:

| | |
|--|-----------|
| End point type | Secondary |
| End point timeframe: | |
| At 4 to 8 weeks after end of Induction period (end of Induction period = up to 8 months) | |

| End point values | Subcutaneous (SC) Rituximab | Diffuse Large B-Cell Lymphoma (DLBCL) | Follicular Lymphoma (FL) | |
|-----------------------------------|-----------------------------|---------------------------------------|--------------------------|--|
| Subject group type | Reporting group | Subject analysis set | Subject analysis set | |
| Number of subjects analysed | 158 | 72 | 86 | |
| Units: Percentage of Participants | | | | |
| number (confidence interval 95%) | 66.4 (57.2 to 74.8) | 65.2 (52.4 to 76.5) | 67.9 (53.7 to 80.1) | |

Statistical analyses

No statistical analyses for this end point

Secondary: FL: Plasma Trough Concentrations of Rituximab

| | |
|-----------------|---|
| End point title | FL: Plasma Trough Concentrations of Rituximab |
|-----------------|---|

End point description:

FL participants could be enrolled during induction or maintenance phase and they should have received at least 1 infusion of rituximab and must have been able to receive at least 4 cycles of rituximab SC if enrolled during induction or 4 cycles of rituximab SC if enrolled during maintenance. Pharmacokinetic (PK) data only collected for participants enrolled during Induction. During the induction phase each Cycle is 21 days.

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

End point timeframe:

Induction collection: Cycle 2 Predose, Cycle 3 Predose, Cycle 4 Predose, Cycle 5 Predose, Baseline Predose, and Cycle 8 Predose on Day 1

| End point values | Follicular Lymphoma (FL) | | | |
|--|--------------------------|--|--|--|
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 31 | | | |
| Units: micrograms per millilitre (ug/mL) | | | | |
| arithmetic mean (standard deviation) | | | | |
| Cycle 2 Predose (n=10) | 55.49 (± 64.275) | | | |
| Cycle 3 Predose (n=6) | 119.50 (± 139.606) | | | |
| Cycle 4 Predose (n=4) | 157.25 (± 132.583) | | | |
| Cycle 5 Predose (n=1) | 7.60 (± 9999999) | | | |
| Baseline (n=21) | 90.88 (± 107.089) | | | |
| Cycle 8 Predose (n=23) | 201.56 (± 372.609) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: FL: Overall Geometric Least Square (LS) Mean Plasma Trough Concentrations of Rituximab

| | |
|-----------------|--|
| End point title | FL: Overall Geometric Least Square (LS) Mean Plasma Trough Concentrations of Rituximab |
|-----------------|--|

End point description:

Measure type reported is geometric least square mean.

FL participants could be enrolled during induction or maintenance phase and they should have received at least 1 infusion of rituximab and must have been able to receive at least 4 cycles of rituximab SC if enrolled during induction or 4 cycles of rituximab SC if enrolled during maintenance. PK data only collected for participants enrolled during Induction. During the induction phase each Cycle is 21 days.

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

End point timeframe:

Induction collection: Cycle 2 Predose, Cycle 3 Predose, Cycle 4 Predose, Cycle 5 Predose, Baseline Predose, and Cycle 8 Predose on Day 1.

| End point values | Follicular Lymphoma (FL) | | | |
|--|--------------------------|--|--|--|
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 31 | | | |
| Units: micrograms per millilitre (ug/mL) | | | | |
| least squares mean (confidence interval 90%) | 61.01 (42.49 to 87.61) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: FL: Plasma Trough Concentrations of Rituximab in Participants with Complete Response/Complete Response Unconfirmed (CR/CRu)

| | |
|-----------------|---|
| End point title | FL: Plasma Trough Concentrations of Rituximab in Participants with Complete Response/Complete Response Unconfirmed (CR/CRu) |
|-----------------|---|

End point description:

FL participants could be enrolled during induction or maintenance phase and they should have received at least 1 infusion of rituximab and must have been able to receive at least 4 cycles of rituximab SC if enrolled during induction or 4 cycles of rituximab SC if enrolled during maintenance. PK data only collected for participants enrolled during Induction. During the induction phase each Cycle is 21 days. The value '9999999' in the results table indicates that the standard deviation could not be calculated using data from a single participant.

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

End point timeframe:

Induction collection: Cycle 2 Predose, Cycle 3 Predose, Cycle 4 Predose, Cycle 5 Predose, Baseline Predose, and Cycle 8 Predose on Day 1.

| End point values | Follicular Lymphoma (FL) | | | |
|--|--------------------------|--|--|--|
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 20 | | | |
| Units: micrograms per millilitre (ug/mL) | | | | |
| arithmetic mean (standard deviation) | | | | |
| Cycle 2 Predose (n=8) | 48.86 (± 57.640) | | | |
| Cycle 3 Predose (n=3) | 156.33 (± 193.753) | | | |
| Cycle 4 Predose (n=3) | 200.33 (± 123.411) | | | |
| Cycle 5 Predose (n=1) | 7.60 (± 9999999) | | | |
| Baseline (n=15) | 97.90 (± 118.897) | | | |

| | | | | |
|------------------------|-------------------------|--|--|--|
| Cycle 8 Predose (n=12) | 284.08 (\pm 504.113) | | | |
|------------------------|-------------------------|--|--|--|

Statistical analyses

No statistical analyses for this end point

Secondary: DLBCL: Plasma Concentrations of Rituximab

| | |
|-----------------|---|
| End point title | DLBCL: Plasma Concentrations of Rituximab |
|-----------------|---|

End point description:

DLBCL participants received at least 1 infusion of rituximab and must have been able to receive at least 4 cycles of rituximab SC; therefore DLBCL participants could be enrolled at Cycle 2, Cycle 3, Cycle 4, or Cycle 5 and as a result the baseline PK sample could be collected at Cycle 2, Cycle 3, Cycle 4, or Cycle 5. Each Cycle is 21 days.

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

End point timeframe:

Cycle 2 Predose, Cycle 3 Predose, Cycle 4 Predose, Cycle 5 Predose, Baseline Predose, Cycle 7 Predose on Day 1, Cycle 7 Day 7, Cycle 7 Day 14, Cycle 8 Predose on Day 1

| End point values | Diffuse Large B-Cell Lymphoma (DLBCL) | | | |
|--|---------------------------------------|--|--|--|
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 36 | | | |
| Units: micrograms per millilitre (ug/mL) | | | | |
| arithmetic mean (standard deviation) | | | | |
| Cycle 2 Predose (n=10) | 42.53 (\pm 49.637) | | | |
| Cycle 3 Predose (n=9) | 88.92 (\pm 92.790) | | | |
| Cycle 4 Predose (n=2) | 110.50 (\pm 101.116) | | | |
| Cycle 5 Predose (n=5) | 100.20 (\pm 44.483) | | | |
| Baseline (n=30) | 92.92 (\pm 114.466) | | | |
| Cycle 7 Predose (n=26) | 141.44 (\pm 122.314) | | | |
| Cycle 7 Day 7 (n=20) | 348.81 (\pm 490.785) | | | |
| Cycle 7 Day 14 (n=5) | 226.40 (\pm 136.729) | | | |
| Cycle 8 Predose (n=28) | 117.61 (\pm 89.394) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: DLBCL: Plasma Trough Concentrations of Rituximab

| | |
|-----------------|--|
| End point title | DLBCL: Plasma Trough Concentrations of Rituximab |
|-----------------|--|

End point description:

DLBCL participants received at least 1 infusion of rituximab and must have been able to receive at least 4 cycles of rituximab SC; therefore DLBCL participants could be enrolled at Cycle 2, Cycle 3, Cycle 4, or Cycle 5 and as a result the baseline PK sample could be collected at Cycle 2, Cycle 3, Cycle 4, or Cycle 5. Each Cycle is 21 days.

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

End point timeframe:

Cycle 2 Predose, Cycle 3 Predose, Cycle 4 Predose, Cycle 5 Predose, Baseline Predose, Cycle 7 Predose on Day 1, Cycle 7 Day 7, Cycle 7 Day 14, Cycle 8 pre-dose on Day 1

| End point values | Diffuse Large B-Cell Lymphoma (DLBCL) | | | |
|--|---------------------------------------|--|--|--|
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 36 | | | |
| Units: micrograms per millilitre (ug/mL) | | | | |
| arithmetic mean (standard deviation) | | | | |
| Cycle 2 Predose (n=10) | 42.53 (± 49.637) | | | |
| Cycle 3 Predose (n=9) | 88.92 (± 92.790) | | | |
| Cycle 4 Predose (n=2) | 110.50 (± 101.116) | | | |
| Cycle 5 Predose (n=5) | 100.20 (± 44.483) | | | |
| Baseline (n=30) | 92.92 (± 114.466) | | | |
| Cycle 7 Predose (n=26) | 141.44 (± 122.314) | | | |
| Cycle 8 Predose (n=21) | 117.61 (± 89.394) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: DLBCL: Area Under the Plasma Concentration-Time Curve (AUC) of Rituximab

| | |
|-----------------|--|
| End point title | DLBCL: Area Under the Plasma Concentration-Time Curve (AUC) of Rituximab |
|-----------------|--|

End point description:

DLBCL participants received at least 1 infusion of rituximab and must have been able to receive at least 4 cycles of rituximab SC; therefore DLBCL participants could be enrolled at Cycle 2, Cycle 3, Cycle 4, or Cycle 5 and as a result the baseline PK sample could be collected at Cycle 2, Cycle 3, Cycle 4, or Cycle 5. Each Cycle is 21 days. The value '9999' indicates AUC was not estimable for available PK concentrations in DLBCL participants.

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

End point timeframe:

Cycle 2 Predose, Cycle 3 Predose, Cycle 4 Predose, Cycle 5 Predose, Baseline Predose, Cycle 7 Predose on Day 1, Cycle 7 Day 7, Cycle 7 Day 14, Cycle 8 Predose on Day 1

| End point values | Diffuse Large B-Cell Lymphoma (DLBCL) | | | |
|--|---------------------------------------|--|--|--|
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 36 ^[5] | | | |
| Units: micrograms per millilitre (ug/mL) | | | | |
| arithmetic mean (standard deviation) | 9999 (± 9999) | | | |

Notes:

[5] - AUC was not estimable for available PK concentrations in DLBCL participants

Statistical analyses

No statistical analyses for this end point

Secondary: DLBCL: Maximum Plasma Concentration (Cmax) of Rituximab

| | |
|-----------------|---|
| End point title | DLBCL: Maximum Plasma Concentration (Cmax) of Rituximab |
|-----------------|---|

End point description:

DLBCL participants received at least 1 infusion of rituximab and must have been able to receive at least 4 cycles of rituximab SC; therefore DLBCL participants could be enrolled at Cycle 2, Cycle 3, Cycle 4, or Cycle 5 and as a result the baseline PK sample could be collected at Cycle 2, Cycle 3, Cycle 4, or Cycle 5. Each Cycle is 21 days. The value '9999' indicates Cmax was not estimable for available PK concentrations in DLBCL participants.

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

End point timeframe:

Cycle 2 Predose, Cycle 3 Predose, Cycle 4 Predose, Cycle 5 Predose, Baseline Predose, Cycle 7 Predose on Day 1, Cycle 7 Day 7, Cycle 7 Day 14, Cycle 8 Predose on Day 1

| End point values | Diffuse Large B-Cell Lymphoma (DLBCL) | | | |
|--|---------------------------------------|--|--|--|
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 36 ^[6] | | | |
| Units: micrograms per millilitre (ug/mL) | | | | |
| arithmetic mean (standard deviation) | 9999 (± 9999) | | | |

Notes:

[6] - Cmax was not estimable for available PK concentrations in DLBCL participants.

Statistical analyses

No statistical analyses for this end point

Secondary: DLBCL: Apparent Total Clearance (CL/F) of Rituximab

| | |
|---|---|
| End point title | DLBCL: Apparent Total Clearance (CL/F) of Rituximab |
| End point description: | |
| DLBCL participants received at least 1 infusion of rituximab and must have been able to receive at least 4 cycles of rituximab SC; therefore DLBCL participants could be enrolled at Cycle 2, Cycle 3, Cycle 4, or Cycle 5 and as a result the baseline PK sample could be collected at Cycle 2, Cycle 3, Cycle 4, or Cycle 5. Each Cycle is 21 days. The value '9999' indicates that CL/F was not estimable for available PK concentrations in DLBCL participants. | |
| End point type | Secondary |
| End point timeframe: | |
| Cycle 2 Predose, Cycle 3 Predose, Cycle 4 Predose, Cycle 5 Predose, Baseline Predose, Cycle 7 Predose on Day 1, Cycle 7 Day 7, Cycle 7 Day 14, Cycle 8 Predose on Day 1 | |

| | | | | |
|--|---------------------------------------|--|--|--|
| End point values | Diffuse Large B-Cell Lymphoma (DLBCL) | | | |
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 36 ^[7] | | | |
| Units: micrograms per millilitre (ug/mL) | | | | |
| arithmetic mean (standard deviation) | 9999 (± 9999) | | | |

Notes:

[7] - AUC was not estimable for available PK concentrations in DLBCL participants

Statistical analyses

No statistical analyses for this end point

Secondary: DLBCL: Plasma Trough Concentrations of Rituximab in Participants with Complete Response/Complete Response Unconfirmed (CR/CRu)

| | |
|---|--|
| End point title | DLBCL: Plasma Trough Concentrations of Rituximab in Participants with Complete Response/Complete Response Unconfirmed (CR/CRu) |
| End point description: | |
| DLBCL participants received at least 1 infusion of rituximab and must have been able to receive at least 4 cycles of rituximab SC; therefore DLBCL participants could be enrolled at Cycle 2, Cycle 3, Cycle 4, or Cycle 5 and as a result the baseline PK sample could be collected at Cycle 2, Cycle 3, Cycle 4, or Cycle 5. Each Cycle is 21 days. | |
| End point type | Secondary |
| End point timeframe: | |
| Cycle 2 Predose, Cycle 3 Predose, Cycle 4 Predose, Cycle 5 Predose, Baseline Predose, Cycle 7 Predose on Day 1, Cycle 7 Day 7, Cycle 7 Day 14, Cycle 8 Predose on Day 1 | |

| | | | | |
|--|---------------------------------------|--|--|--|
| End point values | Diffuse Large B-Cell Lymphoma (DLBCL) | | | |
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 28 | | | |
| Units: micrograms per millilitre (ug/mL) | | | | |
| arithmetic mean (standard deviation) | | | | |

| | | | | |
|------------------------|--------------------|--|--|--|
| Cycle 2 Predose (n=7) | 53.97 (± 56.169) | | | |
| Cycle 3 Predose (n=7) | 101.79 (± 101.223) | | | |
| Cycle 4 Predose (n=2) | 110.50 (± 101.116) | | | |
| Cycle 5 Predose (n=3) | 121.67 (± 45.092) | | | |
| Baseline (n=23) | 109.40 (± 125.603) | | | |
| Cycle 7 Predose (n=21) | 157.93 (± 131.178) | | | |
| Cycle 8 Predose (n=21) | 132.57 (± 95.447) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: DLBCL: Overall Geometric Least Square (LS) Mean Plasma Trough Concentrations of Rituximab

| | |
|-----------------|---|
| End point title | DLBCL: Overall Geometric Least Square (LS) Mean Plasma Trough Concentrations of Rituximab |
|-----------------|---|

End point description:

Measure type reported is geometric least square mean

DLBCL participants received at least 1 infusion of rituximab and must have been able to receive at least 4 cycles of rituximab SC; therefore DLBCL participants could be enrolled at Cycle 2, Cycle 3, Cycle 4, or Cycle 5 and as a result the baseline PK sample could be collected at Cycle 2, Cycle 3, Cycle 4, or Cycle 5. Each Cycle is 21 days.

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

End point timeframe:

Cycle 2 Predose, Cycle 3 Predose, Cycle 4 Predose, Cycle 5 Predose, Baseline Predose, Cycle 7 Predose on Day 1, Cycle 7 Day 7, Cycle 7 Day 14, Cycle 8 Predose on Day 1

| | | | | |
|--|---------------------------------------|--|--|--|
| End point values | Diffuse Large B-Cell Lymphoma (DLBCL) | | | |
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 36 | | | |
| Units: micrograms per millilitre (ug/mL) | | | | |
| least squares mean (confidence interval 90%) | 70.50 (57.60 to 86.28) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: DLBCL: Plasma Concentrations During Different Scheduling of Rituximab SC R-CHOP-14 or R-CHOP-21

| | |
|-----------------|---|
| End point title | DLBCL: Plasma Concentrations During Different Scheduling of Rituximab SC R-CHOP-14 or R-CHOP-21 |
|-----------------|---|

End point description:

Plasma concentrations of rituximab in participants with DLBCL by chemotherapy regimen cyclophosphamide, oncovine (vincristine), doxorubicin, prednisone/prednisolone given every 14 days (R-CHOP-14) or cyclophosphamide, oncovine (vincristine), doxorubicin, prednisone/prednisolone given every 21 days (R-CHOP-21) in the pharmacokinetic (PK) population. The value '99999' in the results table indicates that the standard deviation could not be calculated using data from a single participant. The Value '9999' in the results table indicates data is not reportable as no participants analyzed. DLBCL participants have received at least 1 infusion of rituximab and must be able to receive at least 4 cycles of rituximab SC; therefore DLBCL participants could be enrolled at Cycle 2, Cycle 3, Cycle 4, or Cycle 5 and as a result the baseline pk sample could be collected at Cycle 2, Cycle 3, Cycle 4, or Cycle 5. Each cycle is 21 days.

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

End point timeframe:

Cycle 2 Predose, Cycle 3 Predose, Cycle 4 Predose, Cycle 5 Predose, Baseline Predose, Cycle 7 Predose on Day 1, Cycle 7 Day 7, Cycle 7 Day 14, Cycle 8 Predose on Day 1

| End point values | Diffuse Large B-Cell Lymphoma (DLBCL) R-CHOP-14 | Diffuse Large B-Cell Lymphoma (DLBCL) R-CHOP-21 | | |
|--|---|---|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 4 | 31 | | |
| Units: micrograms per millilitre (ug/mL) | | | | |
| arithmetic mean (standard deviation) | | | | |
| Cycle 2 Predose (n=1,9) | 170.00 (± 99999) | 28.37 (± 22.695) | | |
| Cycle 3 Predose (n=0,9) | 9999 (± 9999) | 88.92 (± 92.790) | | |
| Cycle 4 Predose (n=0,2) | 9999 (± 9999) | 110.50 (± 101.116) | | |
| Cycle 5 Predose (n=1,4) | 125.00 (± 99999) | 94.00 (± 48.806) | | |
| Baseline (n=4,26) | 214.25 (± 233.493) | 74.25 (± 77.064) | | |
| Cycle 7 Predose (n=2,23) | 93.50 (± 79.903) | 150.13 (± 126.221) | | |
| Cycle 7 Day 7 (n=2,17) | 71.55 (± 26.092) | 398.76 (± 517.974) | | |
| Cycle 7 Day 14 (n=1,4) | 42.00 (± 99999) | 272.50 (± 103.722) | | |
| Cycle 8 Predose (n=2,25) | 78.50 (± 14.849) | 123.76 (± 92.606) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Rituximab Administration Satisfaction Questionnaire (RASQ) Convenience and Satisfaction Domain Scores

| | |
|---|--|
| End point title | Rituximab Administration Satisfaction Questionnaire (RASQ) Convenience and Satisfaction Domain Scores |
| End point description: | |
| Patient-assessed satisfaction was evaluated using RASQ. Participants were asked questions regarding convenience and satisfaction for rituximab SC. Each domain is scored on a scale of 0 to 100, with higher scores indicative of more positive feelings toward therapy. The score for each domain was averaged among all participants. The value '99999' in the results table indicates that the standard deviation could not be calculated using data from a single participant. The value '9999' in the results table indicates DLBCL participants or FL participants did not complete the RASQ at the time point. | |
| End point type | Secondary |
| End point timeframe: | |
| DLBCL: Cycle (C) 2, C3, C4, C5, C6, End of C8; FL: Induction: C3, C4, C5, C6, C8, Maintenance: C2, C3, C4, C5, C6, C7, C8, C10, C12, End of treatment (4-8 weeks after last dose) | |

| End point values | Diffuse Large B-Cell Lymphoma (DLBCL) | Follicular Lymphoma (FL) | | |
|---|---------------------------------------|--------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 72 | 86 | | |
| Units: Units on a Scale | | | | |
| arithmetic mean (standard deviation) | | | | |
| Convenience domain Cycle 3 Induction (n=0,27) | 9999 (± 9999) | 81.8 (± 8.66) | | |
| Convenience domain Cycle 4 Induction (n=0,11) | 9999 (± 9999) | 76.5 (± 6.26) | | |
| Convenience domain Cycle 5 Induction (n=0,9) | 9999 (± 9999) | 79.6 (± 10.30) | | |
| Convenience domain Cycle 6 Induction (n=0,2) | 9999 (± 9999) | 95.8 (± 5.89) | | |
| Convenience domain Cycle 8 Induction (n=0,43) | 9999 (± 9999) | 83.1 (± 9.18) | | |
| Convenience domain Cycle 2 Treatment (n=1,0) | 75.0 (± 99999) | 9999 (± 9999) | | |
| Convenience domain Cycle 3 Treatment (n=30,0) | 81.9 (± 10.28) | 9999 (± 9999) | | |
| Convenience domain Cycle 4 Treatment (n=20,0) | 82.1 (± 12.17) | 9999 (± 9999) | | |
| Convenience domain Cycle 5 Treatment (n=8,0) | 83.3 (± 9.96) | 9999 (± 9999) | | |
| Convenience domain Cycle 6 Treatment (n=13,0) | 80.8 (± 9.85) | 9999 (± 9999) | | |
| Convenience domain Cycle 8 Treatment (n=53,0) | 83.8 (± 11.60) | 9999 (± 9999) | | |
| Convenience domain Cycle 2 Maintenance (n=0,33) | 9999 (± 9999) | 83.6 (± 8.71) | | |
| Convenience domain Cycle 3 Maintenance (n=0,6) | 9999 (± 9999) | 87.5 (± 19.54) | | |
| Convenience domain Cycle 4 Maintenance (n=0,2) | 9999 (± 9999) | 100.0 (± 0.00) | | |
| Convenience domain Cycle 5 Maintenance (n=0,8) | 9999 (± 9999) | 80.2 (± 12.55) | | |
| Convenience domain Cycle 6 Maintenance (n=0,3) | 9999 (± 9999) | 83.3 (± 16.67) | | |
| Convenience domain Cycle 7 Maintenance (n=0,39) | 9999 (± 9999) | 82.7 (± 12.59) | | |
| Convenience domain Cycle 8 Maintenance (n=0,4) | 9999 (± 9999) | 93.8 (± 12.50) | | |

| | | | | |
|---|----------------|-----------------|--|--|
| Convenience domain Cycle 10 Maintenance (n=0,1) | 9999 (± 9999) | 91.7 (± 99999) | | |
| Convenience domain Cycle 12 Maintenance (n=0,48) | 9999 (± 9999) | 86.3 (± 12.69) | | |
| Convenience domain End of Treatment (n=0,3) | 9999 (± 9999) | 75.0 (± 16.67) | | |
| Satisfaction domain Cycle 3 Induction (n=0,27) | 9999 (± 9999) | 89.4 (± 10.23) | | |
| Satisfaction domain Cycle 4 Induction (n=0,11) | 9999 (± 9999) | 84.1 (± 13.80) | | |
| Satisfaction domain Cycle 5 Induction (n=0,9) | 9999 (± 9999) | 91.7 (± 8.84) | | |
| Satisfaction domain Cycle 6 Induction (n=0,2) | 9999 (± 9999) | 93.8 (± 8.84) | | |
| Satisfaction domain Cycle 8 Induction (n=0,40) | 9999 (± 9999) | 91.3 (± 9.47) | | |
| Satisfaction domain Cycle 2 Treatment (n=1,0) | 87.5 (± 99999) | 9999 (± 9999) | | |
| Satisfaction domain Cycle 3 Treatment (n=30,0) | 83.3 (± 11.53) | 9999 (± 9999) | | |
| Satisfaction domain Cycle 4 Treatment (n=20,0) | 85.6 (± 13.62) | 9999 (± 9999) | | |
| Satisfaction domain Cycle 5 Treatment (n=9,0) | 83.3 (± 8.84) | 9999 (± 9999) | | |
| Satisfaction domain Cycle 6 Treatment (n=13,0) | 84.6 (± 14.57) | 9999 (± 9999) | | |
| Satisfaction domain Cycle 8 Treatment (n=54,0) | 91.2 (± 12.76) | 9999 (± 9999) | | |
| Satisfaction domain Cycle 2 Maintenance (n=0,33) | 9999 (± 9999) | 92.0 (± 9.28) | | |
| Satisfaction domain Cycle 3 Maintenance (n=0,6) | 9999 (± 9999) | 79.2 (± 20.41) | | |
| Satisfaction domain Cycle 4 Maintenance (n=0,1) | 9999 (± 9999) | 100.0 (± 99999) | | |
| Satisfaction domain Cycle 5 Maintenance (n=0,8) | 9999 (± 9999) | 79.7 (± 16.28) | | |
| Satisfaction domain Cycle 6 Maintenance (n=0,2) | 9999 (± 9999) | 87.5 (± 17.68) | | |
| Satisfaction domain Cycle 7 Maintenance (n=0,39) | 9999 (± 9999) | 94.2 (± 9.00) | | |
| Satisfaction domain Cycle 8 Maintenance (n=0,4) | 9999 (± 9999) | 93.8 (± 7.22) | | |
| Satisfaction domain Cycle 10 Maintenance (n=0,1) | 9999 (± 9999) | 50.0 (± 99999) | | |
| Satisfaction domain Cycle 12 Maintenance (n=0,47) | 9999 (± 9999) | 91.0 (± 13.21) | | |
| Satisfaction domain End of treatment (n=0,3) | 9999 (± 9999) | 75.0 (± 21.65) | | |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Baseline up to 54 months

Adverse event reporting additional description:

Post study start AEs (AEs occurring on the day of or after the first administration of study drug and up to 28 days after the last dose) and is defined as treatment-emergent adverse event (TEAE).

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 19.1 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|--------------------------|
| Reporting group title | Follicular Lymphoma (FL) |
|-----------------------|--------------------------|

Reporting group description:

Participants with CD20+ non-Hodgkin's (FL), who had received at least 4 doses of rituximab 1400 mg SC once a month during the Induction period, and at least 6 doses of rituximab 1400 mg SC once every two months during the Maintenance period, in addition to standard chemotherapy. Standard chemotherapy regimen included cyclophosphamide, vincristine, doxorubicin and prednisone (CHOP); or cyclophosphamide, vincristine and prednisone (CVP); or bendamustine as per standard local practice.

| | |
|-----------------------|---------------------------------------|
| Reporting group title | Diffuse Large B-Cell Lymphoma (DLBCL) |
|-----------------------|---------------------------------------|

Reporting group description:

Participants with DLBCL, who had received at least 4 doses of rituximab 1400 mg SC once a month during the Induction period, and at least 6 doses of rituximab 1400 mg SC once every two months during the Maintenance period, in addition to standard chemotherapy. Standard chemotherapy regimen included cyclophosphamide, vincristine, doxorubicin and prednisone (CHOP); or cyclophosphamide, vincristine and prednisone (CVP); or bendamustine as per standard local practice.

| Serious adverse events | Follicular Lymphoma (FL) | Diffuse Large B-Cell Lymphoma (DLBCL) | |
|---|--------------------------|---------------------------------------|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 23 / 86 (26.74%) | 26 / 72 (36.11%) | |
| number of deaths (all causes) | 0 | 2 | |
| number of deaths resulting from adverse events | | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Prostatic Adenoma | | | |
| subjects affected / exposed | 1 / 86 (1.16%) | 0 / 72 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Vascular disorders | | | |
| Hypertension | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

| | | | |
|--|----------------|----------------|--|
| General disorders and administration site conditions | | | |
| Chest Pain | | | |
| subjects affected / exposed | 1 / 86 (1.16%) | 0 / 72 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Chylothorax | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pneumonitis | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Respiratory Failure | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Investigations | | | |
| Neutrophil Count Decreased | | | |
| subjects affected / exposed | 1 / 86 (1.16%) | 5 / 72 (6.94%) | |
| occurrences causally related to treatment / all | 0 / 1 | 1 / 7 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| White Blood Cell Count Decreased | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 2 / 72 (2.78%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 4 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Injury, poisoning and procedural complications | | | |
| Meniscus Injury | | | |
| subjects affected / exposed | 1 / 86 (1.16%) | 0 / 72 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac disorders | | | |

| | | | |
|---|------------------|------------------|--|
| Acute Coronary Syndrome | | | |
| subjects affected / exposed | 1 / 86 (1.16%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cardiac Failure | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Myocarditis | | | |
| subjects affected / exposed | 1 / 86 (1.16%) | 0 / 72 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Sinus Tachycardia | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Nervous system disorders | | | |
| Monoparesis | | | |
| subjects affected / exposed | 1 / 86 (1.16%) | 0 / 72 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Syncope | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Blood and lymphatic system disorders | | | |
| Neutropenia | | | |
| subjects affected / exposed | 13 / 86 (15.12%) | 15 / 72 (20.83%) | |
| occurrences causally related to treatment / all | 5 / 16 | 3 / 23 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Febrile Neutropenia | | | |
| subjects affected / exposed | 2 / 86 (2.33%) | 4 / 72 (5.56%) | |
| occurrences causally related to treatment / all | 0 / 2 | 1 / 5 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

| | | | |
|---|----------------|----------------|--|
| Leukopenia | | | |
| subjects affected / exposed | 1 / 86 (1.16%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Lymphopenia | | | |
| subjects affected / exposed | 2 / 86 (2.33%) | 0 / 72 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Thrombocytopenia | | | |
| subjects affected / exposed | 2 / 86 (2.33%) | 0 / 72 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Gastrointestinal disorders | | | |
| Subileus | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hepatobiliary disorders | | | |
| Cholecystitis Acute | | | |
| subjects affected / exposed | 2 / 86 (2.33%) | 0 / 72 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Cholelithiasis | | | |
| subjects affected / exposed | 2 / 86 (2.33%) | 0 / 72 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Renal and urinary disorders | | | |
| Bladder Diverticulum | | | |
| subjects affected / exposed | 1 / 86 (1.16%) | 0 / 72 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Musculoskeletal and connective tissue disorders | | | |
| Arthralgia | | | |

| | | | |
|---|----------------|----------------|--|
| subjects affected / exposed | 0 / 86 (0.00%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Infections and infestations | | | |
| Pneumonia | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 2 / 72 (2.78%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 2 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Klebsiella Infection | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 1 / 1 | |
| Micrococcus Infection | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Pneumocystis Jirovecii Pneumonia | | | |
| subjects affected / exposed | 1 / 86 (1.16%) | 0 / 72 (0.00%) | |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Septic Shock | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | |
| Staphylococcal Infection | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Metabolism and nutrition disorders | | | |
| Diabetes Mellitus | | | |
| subjects affected / exposed | 1 / 86 (1.16%) | 0 / 72 (0.00%) | |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |
| Hypokalaemia | | | |

| | | | |
|---|----------------|----------------|--|
| subjects affected / exposed | 0 / 86 (0.00%) | 1 / 72 (1.39%) | |
| occurrences causally related to treatment / all | 0 / 0 | 1 / 1 | |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | |

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

| Non-serious adverse events | Follicular Lymphoma (FL) | Diffuse Large B-Cell Lymphoma (DLBCL) | |
|---|---------------------------------|--|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 56 / 86 (65.12%) | 50 / 72 (69.44%) | |
| Investigations | | | |
| Neutrophil Count Decreased | | | |
| subjects affected / exposed | 1 / 86 (1.16%) | 9 / 72 (12.50%) | |
| occurrences (all) | 1 | 13 | |
| Nervous system disorders | | | |
| Dysgeusia | | | |
| subjects affected / exposed | 0 / 86 (0.00%) | 5 / 72 (6.94%) | |
| occurrences (all) | 0 | 6 | |
| Headache | | | |
| subjects affected / exposed | 7 / 86 (8.14%) | 3 / 72 (4.17%) | |
| occurrences (all) | 8 | 4 | |
| Paraesthesia | | | |
| subjects affected / exposed | 7 / 86 (8.14%) | 9 / 72 (12.50%) | |
| occurrences (all) | 7 | 11 | |
| Blood and lymphatic system disorders | | | |
| Neutropenia | | | |
| subjects affected / exposed | 20 / 86 (23.26%) | 21 / 72 (29.17%) | |
| occurrences (all) | 46 | 32 | |
| Anaemia | | | |
| subjects affected / exposed | 6 / 86 (6.98%) | 11 / 72 (15.28%) | |
| occurrences (all) | 10 | 15 | |
| Leukopenia | | | |
| subjects affected / exposed | 7 / 86 (8.14%) | 2 / 72 (2.78%) | |
| occurrences (all) | 20 | 3 | |
| Thrombocytopenia | | | |
| subjects affected / exposed | 3 / 86 (3.49%) | 4 / 72 (5.56%) | |
| occurrences (all) | 14 | 8 | |

| | | | |
|---|--|---|--|
| Lymphopenia subjects affected / exposed occurrences (all) | 5 / 86 (5.81%) 19 | 1 / 72 (1.39%) 1 | |
| General disorders and administration site conditions Pyrexia subjects affected / exposed occurrences (all) Asthenia subjects affected / exposed occurrences (all) Influenza Like Illness subjects affected / exposed occurrences (all) | 15 / 86 (17.44%) 23 3 / 86 (3.49%) 3 9 / 86 (10.47%) 15 | 11 / 72 (15.28%) 15 14 / 72 (19.44%) 14 2 / 72 (2.78%) 2 | |
| Gastrointestinal disorders Diarrhoea subjects affected / exposed occurrences (all) | 7 / 86 (8.14%) 11 | 7 / 72 (9.72%) 8 | |
| Respiratory, thoracic and mediastinal disorders Oropharyngeal Pain subjects affected / exposed occurrences (all) Cough subjects affected / exposed occurrences (all) | 0 / 86 (0.00%) 0 15 / 86 (17.44%) 19 | 5 / 72 (6.94%) 5 6 / 72 (8.33%) 7 | |
| Skin and subcutaneous tissue disorders Erythema subjects affected / exposed occurrences (all) | 6 / 86 (6.98%) 7 | 0 / 72 (0.00%) 0 | |
| Musculoskeletal and connective tissue disorders Back Pain subjects affected / exposed occurrences (all) | 4 / 86 (4.65%) 4 | 4 / 72 (5.56%) 4 | |
| Infections and infestations Bronchitis subjects affected / exposed occurrences (all) | 5 / 86 (5.81%) 6 | 1 / 72 (1.39%) 1 | |

| | | | |
|---|---------------------|---------------------|--|
| Herpes Zoster subjects affected / exposed occurrences (all) | 5 / 86 (5.81%) 5 | 0 / 72 (0.00%) 0 | |
|---|---------------------|---------------------|--|

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|---------------|---|
| 04 March 2014 | The first protocol amendment led to protocol version 3, dated 04 Mar 2014, and was implemented for the following reasons: The CT scan timelines were modified from 35 to 45 days prior the first IV administration of rituximab; The meaning of the previous statement on first dosing was clarified; The procedures for enrollment in this study, in particular in the Maintenance period, were clarified; Changes in some inclusion/exclusion criteria were made for better clarity; Guidelines reference for the management of HBV patients was provided; Details for PRO data collection were provided; Details on the actual SAE reporting process were provided; Details on patient discontinuation procedures were given. |
| 05 July 2016 | The second protocol amendment led to protocol version 4, dated 05 July 2016, and was implemented for the following reasons: An intermediate analysis was considered necessary to analyse all patients who concluded the Induction phase regarding the safety and PK endpoints (i.e. the analysis performed for the interim Clinical Study Report); Due to inconsistencies between the core text and schedule of assessments, the "Early termination/End of Treatment visit" was added in the Protocol Appendix 11.1 and 11.1.1; Changes in protocol Section 4.3.4 regarding post-study access to Rituximab SC were made in agreement with new requirements. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported