



Clinical trial results:

A Phase II Study Exploring the Safety and Efficacy of Atezolizumab Administered in Combination With Obinutuzumab or Rituximab Anti-CD20 Therapy in Patients With Relapsed/Refractory Mantle Cell Lymphoma, Marginal Zone Lymphoma and Waldenström Macroglobulinemia

Summary

| | |
|--------------------------|----------------------|
| EudraCT number | 2016-003579-22 |
| Trial protocol | ES DE LV GR SK FR IT |
| Global end of trial date | 14 January 2022 |

Results information

| | |
|--------------------------------|-----------------|
| Result version number | v1 (current) |
| This version publication date | 29 January 2023 |
| First version publication date | 29 January 2023 |

Trial information

Trial identification

| | |
|-----------------------|---------|
| Sponsor protocol code | MO39107 |
|-----------------------|---------|

Additional study identifiers

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

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | F. Hoffmann-La Roche AG |
| Sponsor organisation address | Grenzacherstrasse 124, Basel, Switzerland, CH-4070 |
| Public contact | F. Hoffmann-La Roche AG, F. Hoffmann-La Roche AG, 41 616878333, global.trial_information@roche.com |
| Scientific contact | F. Hoffmann-La Roche AG, F. Hoffmann-La Roche AG, 41 616878333, global.trial_information@roche.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 | 14 January 2022 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 14 January 2022 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

This study evaluated the efficacy, safety and tolerability of atezolizumab in combination with obinutuzumab in participants with relapsed/refractory Mantle Cell Lymphoma (MCL) and Waldenström Macroglobulinemia (WM) or with rituximab in participants with relapsed/refractory Marginal Zone Lymphoma (MZL).

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 | 21 November 2017 |
| Long term follow-up planned | Yes |
| Long term follow-up rationale | Safety, Efficacy |
| Long term follow-up duration | 24 Months |
| Independent data monitoring committee (IDMC) involvement? | Yes |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|---------------------------|
| Country: Number of subjects enrolled | Bosnia and Herzegovina: 3 |
| Country: Number of subjects enrolled | Switzerland: 1 |
| Country: Number of subjects enrolled | Germany: 2 |
| Country: Number of subjects enrolled | Spain: 9 |
| Country: Number of subjects enrolled | France: 9 |
| Country: Number of subjects enrolled | Greece: 11 |
| Country: Number of subjects enrolled | Italy: 3 |
| Country: Number of subjects enrolled | Latvia: 1 |
| Country: Number of subjects enrolled | Russian Federation: 14 |
| Country: Number of subjects enrolled | Slovakia: 2 |
| Worldwide total number of subjects | 55 |
| EEA total number of subjects | 37 |

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) | 21 |
| From 65 to 84 years | 33 |
| 85 years and over | 1 |

Subject disposition

Recruitment

Recruitment details:

Initially plan was to enroll 40 patients in each cohort. Enrolment was impacted by a number of limiting factors and most notably the approval of ibrutinib and the availability of this new therapy to patients, thus, sample size was reduced to a planned 30 participants in MCL cohort, 5 patients in WM cohort, and 20 patients in MZL cohort.

Pre-assignment

Screening details:

This study included participants with histologically documented, CD20 positive (assessed locally) relapsed or refractory Mantle Cell Lymphoma, Marginal Zone Lymphoma, and Waldenström's Macroglobulinemia and an Eastern Cooperative Oncology Group performance status (ECOG PS) of 0, 1, or 2 (prior to enrolment).

Period 1

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

Arms

| | |
|------------------------------|-------------------------------------|
| Are arms mutually exclusive? | Yes |
| Arm title | Atezolizumab + Obinutuzumab for MCL |

Arm description:

Participants with refractory or relapsed Mantle Cell Lymphoma (MCL) received atezolizumab in combination with obinutuzumab during the induction phase (Cycles 1-8), and Atezolizumab during the maintenance phase (Cycles 9-18).

| | |
|--|-----------------|
| Arm type | Experimental |
| Investigational medicinal product name | Obinutuzumab |
| Investigational medicinal product code | |
| Other name | GAZYVA |
| Pharmaceutical forms | Infusion |
| Routes of administration | Intravenous use |

Dosage and administration details:

Participants received 1000 mg of obinutuzumab as intravenous infusions on Day 1 of each 21 day cycle for 8 cycles. Participants also received 1000 mg of obinutuzumab on Days 8 and 15 of the first cycle only. The first dose of obinutuzumab may have be split over Day 1 and Day 2 of Cycle 1 (at the discretion of the investigator).

| | |
|--|-----------------|
| Investigational medicinal product name | Atezolizumab |
| Investigational medicinal product code | |
| Other name | Tecentriq |
| Pharmaceutical forms | Infusion |
| Routes of administration | Intravenous use |

Dosage and administration details:

Participants received 1200 mg of atezolizumab intravenously on Day 1 of each 21 day cycle for 8 cycles. If the first dose of obinutuzumab was split over Day 1 and Day 2 of Cycle 1, then the atezolizumab dosing occurred on Day 2 of Cycle 1, after the obinutuzumab dosing was completed. From Cycle 9, participants received 1200 mg of atezolizumab only for a further 10 cycles (to a total of 18 cycles for patients that have not progressed).

| | |
|------------------|------------------------------------|
| Arm title | Atezolizumab + Obinutuzumab for WM |
|------------------|------------------------------------|

Arm description:

Participants with Waldenström Macroglobulinemia (WM) received atezolizumab plus obinutuzumab during the induction phase (Cycles 1-8), and Atezolizumab during the maintenance phase (Cycles 9-18).

| | |
|----------|--------------|
| Arm type | Experimental |
|----------|--------------|

| | |
|--|-----------------|
| Investigational medicinal product name | Obinutuzumab |
| Investigational medicinal product code | |
| Other name | GAZYVA |
| Pharmaceutical forms | Infusion |
| Routes of administration | Intravenous use |

Dosage and administration details:

Participants received 1000 mg of obinutuzumab as intravenous infusions on Day 1 of each 21 day cycle for 8 cycles. Participants also received 1000 mg of obinutuzumab on Days 8 and 15 of the first cycle only. The first dose of obinutuzumab may have be split over Day 1 and Day 2 of Cycle 1 (at the discretion of the investigator).

| | |
|--|-----------------|
| Investigational medicinal product name | Atezolizumab |
| Investigational medicinal product code | |
| Other name | Tecentriq |
| Pharmaceutical forms | Infusion |
| Routes of administration | Intravenous use |

Dosage and administration details:

Participants received 1200 mg of atezolizumab intravenously on Day 1 of each 21 day cycle for 8 cycles. If the first dose of obinutuzumab was split over Day 1 and Day 2 of Cycle 1, then the atezolizumab dosing occurred on Day 2 of Cycle 1, after the obinutuzumab dosing was completed. From Cycle 9, participants received 1200 mg of atezolizumab only for a further 10 cycles (to a total of 18 cycles for patients that have not progressed).

| | |
|------------------|----------------------------------|
| Arm title | Atezolizumab + Rituximab for MZL |
|------------------|----------------------------------|

Arm description:

Participants with Marginal Zone Lymphoma (MZL) received atezolizumab in combination with rituximab during the induction phase (Cycles 1-8), and Atezolizumab during the maintenance phase (Cycles 9-18).

| | |
|--|-----------------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | Rituximab |
| Investigational medicinal product code | |
| Other name | RITUXAN |
| Pharmaceutical forms | Infusion, Injection |
| Routes of administration | Intravenous use, Subcutaneous use |

Dosage and administration details:

Participants received 375mg/m² of rituximab intravenously on Day 1 of Cycle 1. Participants also received 1400 mg of rituximab subcutaneously on Day 1 from Cycles 2-8.

| | |
|--|-----------------|
| Investigational medicinal product name | Atezolizumab |
| Investigational medicinal product code | |
| Other name | Tecentriq |
| Pharmaceutical forms | Infusion |
| Routes of administration | Intravenous use |

Dosage and administration details:

Participants received 1200 mg of atezolizumab intravenously on Day 1 of Cycle 1. From Cycle 9, participants received 1200 mg of atezolizumab only for a further 10 cycles.

| Number of subjects in period 1 | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Obinutuzumab for WM | Atezolizumab + Rituximab for MZL |
|---------------------------------------|-------------------------------------|------------------------------------|----------------------------------|
| Started | 30 | 4 | 21 |
| Completed | 8 | 1 | 12 |
| Not completed | 22 | 3 | 9 |
| Physician decision | 1 | - | - |
| Consent withdrawn by subject | 1 | 1 | 1 |

| | | | |
|--------------------|----|---|---|
| Death | 16 | 1 | 7 |
| Lost to follow-up | 3 | 1 | 1 |
| Protocol deviation | 1 | - | - |

Baseline characteristics

Reporting groups

| | |
|-----------------------|-------------------------------------|
| Reporting group title | Atezolizumab + Obinutuzumab for MCL |
|-----------------------|-------------------------------------|

Reporting group description:

Participants with refractory or relapsed Mantle Cell Lymphoma (MCL) received atezolizumab in combination with obinutuzumab during the induction phase (Cycles 1-8), and Atezolizumab during the maintenance phase (Cycles 9-18).

| | |
|-----------------------|------------------------------------|
| Reporting group title | Atezolizumab + Obinutuzumab for WM |
|-----------------------|------------------------------------|

Reporting group description:

Participants with Waldenström Macroglobulinemia (WM) received atezolizumab plus obinutuzumab during the induction phase (Cycles 1-8), and Atezolizumab during the maintenance phase (Cycles 9-18).

| | |
|-----------------------|----------------------------------|
| Reporting group title | Atezolizumab + Rituximab for MZL |
|-----------------------|----------------------------------|

Reporting group description:

Participants with Marginal Zone Lymphoma (MZL) received atezolizumab in combination with rituximab during the induction phase (Cycles 1-8), and Atezolizumab during the maintenance phase (Cycles 9-18).

| Reporting group values | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Obinutuzumab for WM | Atezolizumab + Rituximab for MZL |
|---|---|--|-------------------------------------|
| Number of subjects | 30 | 4 | 21 |
| Age categorical Units: Subjects | | | |
| In utero | 0 | 0 | 0 |
| Preterm newborn infants (gestational age < 37 wks) | 0 | 0 | 0 |
| Newborns (0-27 days) | 0 | 0 | 0 |
| Infants and toddlers (28 days-23 months) | 0 | 0 | 0 |
| Children (2-11 years) | 0 | 0 | 0 |
| Adolescents (12-17 years) | 0 | 0 | 0 |
| Adults (18-64 years) | 11 | 2 | 8 |
| From 65-84 years | 19 | 2 | 12 |
| 85 years and over | 0 | 0 | 1 |
| Age continuous Units: years | | | |
| arithmetic mean | 67.5 | 62.3 | 68.6 |
| standard deviation | ± 8.3 | ± 5.6 | ± 11.5 |
| Gender categorical Units: Subjects | | | |
| Female | 8 | 2 | 14 |
| Male | 22 | 2 | 7 |

| Reporting group values | Total | | |
|---|-------|--|--|
| Number of subjects | 55 | | |
| Age categorical Units: Subjects | | | |
| In utero | 0 | | |
| Preterm newborn infants (gestational age < 37 wks) | 0 | | |
| Newborns (0-27 days) | 0 | | |

| | | | |
|--|----|--|--|
| Infants and toddlers (28 days-23 months) | 0 | | |
| Children (2-11 years) | 0 | | |
| Adolescents (12-17 years) | 0 | | |
| Adults (18-64 years) | 21 | | |
| From 65-84 years | 33 | | |
| 85 years and over | 1 | | |
| Age continuous | | | |
| Units: years | | | |
| arithmetic mean | | | |
| standard deviation | - | | |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 24 | | |
| Male | 31 | | |

End points

End points reporting groups

| | |
|--|--|
| Reporting group title | Atezolizumab + Obinutuzumab for MCL |
| Reporting group description: Participants with refractory or relapsed Mantle Cell Lymphoma (MCL) received atezolizumab in combination with obinutuzumab during the induction phase (Cycles 1-8), and Atezolizumab during the maintenance phase (Cycles 9-18). | |
| Reporting group title | Atezolizumab + Obinutuzumab for WM |
| Reporting group description: Participants with Waldenström Macroglobulinemia (WM) received atezolizumab plus obinutuzumab during the induction phase (Cycles 1-8), and Atezolizumab during the maintenance phase (Cycles 9-18). | |
| Reporting group title | Atezolizumab + Rituximab for MZL |
| Reporting group description: Participants with Marginal Zone Lymphoma (MZL) received atezolizumab in combination with rituximab during the induction phase (Cycles 1-8), and Atezolizumab during the maintenance phase (Cycles 9-18). | |
| Subject analysis set title | Atezolizumab + Rituximab for Gastric MZL |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Gastric Marginal Zone Lymphoma (MZL) participants who received atezolizumab plus rituximab in the safety population. | |
| Subject analysis set title | Atezolizumab + Rituximab for Splenic MZL |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Splenic Marginal Zone Lymphoma (MZL) participants who received atezolizumab plus rituximab in the safety population. | |
| Subject analysis set title | Obinutuzumab Exposure for MCL |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Marginal Cell Lymphoma (MCL) participants with exposure to obinutuzumab in the safety population. | |
| Subject analysis set title | Atezolizumab Exposure for MCL |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Marginal Cell Lymphoma (MCL) participants with exposure to atezolizumab in the safety population. | |
| Subject analysis set title | Obinutuzumab Exposure for WM |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Waldenström Macroglobulinemia (WM) participants with obinutuzumab exposure in the safety population. | |
| Subject analysis set title | Atezolizumab Exposure for WM |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Waldenström Macroglobulinemia (WM) participants with atezolizumab exposure in the safety population. | |
| Subject analysis set title | Rituximab Exposure for MZL |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Marginal Zone lymphoma (MZL) participants with rituximab exposure in the safety population. | |
| Subject analysis set title | Atezolizumab Exposure for MZL |
| Subject analysis set type | Sub-group analysis |
| Subject analysis set description: Marginal Zone lymphoma (MZL) participants with atezolizumab exposure in the safety population. | |

Primary: For MCL and Nodal and Extra-Nodal MZL, Objective Response at End of Induction (EOI)

| | |
|-----------------|---|
| End point title | For MCL and Nodal and Extra-Nodal MZL, Objective Response at End of Induction (EOI) ^{[1][2]} |
|-----------------|---|

End point description:

For Mantle Cell Lymphoma (MCL) and nodal and extra-nodal Marginal Zone Lymphoma (MZL), objective response at End of Induction (EOI) was defined as a Complete Response (CR) or Partial Response (PR) based on modified Cheson 2007 criteria (excluding PET).

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

End point timeframe:

End of induction (approximately 6 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 analysis for this end point.

[2] - 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: No statistical analysis for this end point.

| End point values | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Rituximab for MZL | | |
|----------------------------------|-------------------------------------|----------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 30 | 21 | | |
| Units: Percentage | | | | |
| number (confidence interval 95%) | 16.7 (5.6 to 34.7) | 42.9 (21.8 to 66.0) | | |

Statistical analyses

No statistical analyses for this end point

Primary: Best Overall Objective Response (BOR) for WM

| | |
|-----------------|--|
| End point title | Best Overall Objective Response (BOR) for WM ^{[3][4]} |
|-----------------|--|

End point description:

For Waldenström's Macroglobulinemia (WM), Best Overall Objective Response (BOR) was defined as a Complete Response (CR), Very Good Partial Response (VGPR), Partial Response (PR), or Minimum Response (MR), based on Owen 2013 criteria, at any time during the study.

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

End point timeframe:

At any time during the study (up to approximately 49 months)

Notes:

[3] - 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 analysis for this end point.

[4] - 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: No statistical analysis for this end point.

| | | | | |
|----------------------------------|------------------------------------|--|--|--|
| End point values | Atezolizumab + Obinutuzumab for WM | | | |
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 4 | | | |
| Units: Percentage | | | | |
| number (confidence interval 95%) | 0 (0.0 to 60.2) | | | |

Statistical analyses

No statistical analyses for this end point

Primary: Objective Response at End of Induction (EOI) for Gastric MZL

| | |
|-----------------|---|
| End point title | Objective Response at End of Induction (EOI) for Gastric MZL ^[5] |
|-----------------|---|

End point description:

For gastric Marginal Zone Lymphoma (MZL), objective response at End of Induction (EOI), was defined as a Complete Response (CR) or Probable Minimal Residual Disease (pMRD) or Responding Residual Disease (rRD), based on the histological grading system of GELA 2003 criteria.

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

End point timeframe:

End of induction (approximately 6 months)

Notes:

[5] - 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 analysis for this end point.

| | | | | |
|----------------------------------|--|--|--|--|
| End point values | Atezolizumab + Rituximab for Gastric MZL | | | |
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 3 | | | |
| Units: Percentage | | | | |
| number (confidence interval 95%) | 66.7 (9.4 to 99.2) | | | |

Statistical analyses

No statistical analyses for this end point

Primary: Objective Response at End of Induction (EOI) for Splenic MZL

| | |
|-----------------|---|
| End point title | Objective Response at End of Induction (EOI) for Splenic MZL ^[6] |
|-----------------|---|

End point description:

For splenic MZL, objective response at End of Induction (EOI) was defined as a CR or PR based on Matutes (2008).

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

End point timeframe:

End of induction (approximately 6 months)

Notes:

[6] - 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 analysis for this end point.

| | | | | |
|----------------------------------|--|--|--|--|
| End point values | Atezolizumab + Rituximab for Splenic MZL | | | |
| Subject group type | Subject analysis set | | | |
| Number of subjects analysed | 8 | | | |
| Units: Percentage | | | | |
| number (confidence interval 95%) | 12.5 (0.3 to 52.7) | | | |

Statistical analyses

No statistical analyses for this end point

Primary: Percentage of Participants with Treatment-Emergent Adverse Events

| | |
|-----------------|--|
| End point title | Percentage of Participants with Treatment-Emergent Adverse Events ^[7] |
|-----------------|--|

End point description:

Percentage of participants with treatment-emergent adverse events

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

End point timeframe:

Baseline up to to the data cutoff date: 14 January 2022 (up to approximately 49 months)

Notes:

[7] - 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 analysis for this end point.

| | | | | |
|-----------------------------------|-------------------------------------|------------------------------------|----------------------------------|--|
| End point values | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Obinutuzumab for WM | Atezolizumab + Rituximab for MZL | |
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 30 | 4 | 21 | |
| Units: Percentage of participants | | | | |
| number (not applicable) | 93.3 | 100 | 95.2 | |

Statistical analyses

No statistical analyses for this end point

Secondary: Progression-Free Survival (PFS)

| | |
|-----------------|---------------------------------|
| End point title | Progression-Free Survival (PFS) |
|-----------------|---------------------------------|

End point description:

Progression-free survival (PFS) is defined as the time from enrolment to the first occurrence of disease progression or death from any cause, whichever occurs first, as determined by the investigator. Participants who have experienced none of these events at the time of analysis (clinical-cut off) and participants who were lost to follow-up will be censored at the time of the last evaluable tumor

assessment. Participants with no tumor assessment after the baseline visit were censored at the time of enrolment plus one day. Note: 999999=Non-Estimated.

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

End point timeframe:

Enrolment to the first occurrence of disease progression or death from any cause, whichever occurs first (up to approximately 49 months).

| End point values | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Obinutuzumab for WM | Atezolizumab + Rituximab for MZL | |
|----------------------------------|-------------------------------------|------------------------------------|----------------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 30 | 4 | 21 | |
| Units: Months | | | | |
| median (confidence interval 95%) | 10.1 (3.4 to 14.0) | 7.2 (6.2 to 999999) | 23.5 (10.1 to 999999) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Best Overall Response (BOR)

| | |
|-----------------|-----------------------------|
| End point title | Best Overall Response (BOR) |
|-----------------|-----------------------------|

End point description:

Best overall response (BOR) is defined as best response seen throughout study, of CR or PR for MCL, nodal and extra-nodal MZL and splenic MZL. CR, pMRD or rRD for gastric MZL. And for WM, this includes CR, VGPR, PR or MR.

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

End point timeframe:

Throughout study (up to approximately 49 months).

| End point values | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Obinutuzumab for WM | Atezolizumab + Rituximab for MZL | |
|----------------------------------|-------------------------------------|------------------------------------|----------------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 30 | 4 | 21 | |
| Units: Percentage | | | | |
| number (confidence interval 95%) | 33.3 (17.3 to 52.8) | 0 (0.0 to 60.2) | 61.9 (38.4 to 81.9) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Complete Response Rate (CRR)

| | |
|---|------------------------------|
| End point title | Complete Response Rate (CRR) |
| End point description: Complete Response Rate (CRR) is defined as best response of CR. | |
| End point type | Secondary |
| End point timeframe: Throughout study (up to approximately 49 months). | |

| End point values | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Obinutuzumab for WM | Atezolizumab + Rituximab for MZL | |
|----------------------------------|---|--|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 30 | 4 | 21 | |
| Units: Percentage | | | | |
| number (confidence interval 95%) | 10.0 (2.1 to 26.5) | 0 (0.0 to 60.2) | 38.1 (18.1 to 61.6) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Duration of Objective Response (DOR)

| | |
|---|--------------------------------------|
| End point title | Duration of Objective Response (DOR) |
| End point description: Duration of objective response (DOR) is defined for responding patients as the time from first occurrence of a documented objective response to the time of progression or death from any cause, whichever occurs first, as determined by the investigator. Note: 999999=Non-Estimated. | |
| End point type | Secondary |
| End point timeframe: From first occurrence of a documented objective response to the time of progression or death from any cause (up to approximately 49 months). | |

| End point values | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Obinutuzumab for WM | Atezolizumab + Rituximab for MZL | |
|----------------------------------|---|--|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 5 ^[8] | 0 ^[9] | 9 | |
| Units: Months | | | | |
| median (confidence interval 95%) | 999999 (999999 to 999999) | (to) | 27.8 (3.4 to 999999) | |

Notes:

[8] - DOR ascertained at first percentile. Of 5 responders, 2 patients had events, & 3 observations censored.

[9] - The DOR was not applicable to WM patients due to no responders.

Statistical analyses

No statistical analyses for this end point

Secondary: Time to Next Treatment (TTNT)

End point title | Time to Next Treatment (TTNT)

End point description:

Time to next treatment (TTNT) is defined as the time from the date of enrolment to the start date of the next anti-lymphoma treatment (NALT) or death from any cause, whichever occurred first. Note: 999999=Non-Estimated.

End point type | Secondary

End point timeframe:

Time from the date of enrolment to the start date of the next anti-lymphoma treatment (NALT) or death from any cause, whichever occurred first (up to approximately 49 months).

| End point values | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Obinutuzumab for WM | Atezolizumab + Rituximab for MZL | |
|----------------------------------|-------------------------------------|------------------------------------|----------------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 20 | 1 ^[10] | 12 | |
| Units: Months | | | | |
| median (confidence interval 95%) | 10.5 (6.7 to 22.6) | 999999 (999999 to 999999) | 30.5 (16.6 to 999999) | |

Notes:

[10] - As median TTNT was not established, first quartile presented was 6.2 months (95% CI: 6.2, Non-Est)..

Statistical analyses

No statistical analyses for this end point

Secondary: Overall Survival (OS)

End point title | Overall Survival (OS)

End point description:

Overall survival (OS) is defined as the time from enrolment to death from any cause (up to approximately 49 months). Note: 999999=Non-Estimated.

End point type | Secondary

End point timeframe:

From enrolment to death from any cause.

| End point values | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Obinutuzumab for WM | Atezolizumab + Rituximab for MZL | |
|----------------------------------|-------------------------------------|------------------------------------|----------------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 30 | 4 | 21 | |
| Units: Months | | | | |
| median (confidence interval 95%) | 30.9 (12.3 to 999999) | 999999 (999999 to 999999) | 999999 (999999 to 999999) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Event-Free Survival (EFS)

End point title | Event-Free Survival (EFS)

End point description:

Event-free survival (EFS) is defined as the time from enrolment to first occurrence of disease progression or relapse, death from any cause, as assessed by the investigator, or initiation of any non-protocol-specified NALT, whichever occurred first. Note: 999999=Non-Estimated.

End point type | Secondary

End point timeframe:

From enrolment to first occurrence of disease progression or relapse, death from any cause (up to approximately 49 months).

| End point values | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Obinutuzumab for WM | Atezolizumab + Rituximab for MZL | |
|----------------------------------|---|--|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 30 | 4 | 21 | |
| Units: Months | | | | |
| median (confidence interval 95%) | 7.4 (3.4 to 12.5) | 7.2 (6.2 to 999999) | 23.5 (10.1 to 999999) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Disease-Free Survival (DFS)

End point title | Disease-Free Survival (DFS)

End point description:

Disease-free survival (DFS) is defined as the time from the date of the first occurrence of a documented CR to the date of disease progression, relapse, or death from any cause, whichever occurred first, as assessed by the investigator, for the subgroup of patients with a BOR of CR. Note: 999999=Non-Estimated.

End point type | Secondary

End point timeframe:

From the date of the first occurrence of a documented CR to the date of disease progression, relapse, or death from any cause, whichever occurred first (up to approximately 49 months).

| End point values | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Obinutuzumab for WM | Atezolizumab + Rituximab for MZL | |
|----------------------------------|-------------------------------------|------------------------------------|----------------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 3 ^[11] | 0 ^[12] | 8 ^[13] | |
| Units: Months | | | | |
| median (confidence interval 95%) | 999999 (999999 to 999999) | (to) | 999999 (999999 to 999999) | |

Notes:

[11] - Due to a lack of events, only the first quartile of DFS was reached.

[12] - No patients with a best overall response of CR.

[13] - Due to a lack of events, only the first quartile of DFS was reached.

Statistical analyses

No statistical analyses for this end point

Secondary: Dose Intensity

| | |
|--|----------------|
| End point title | Dose Intensity |
| End point description: Dose intensity = 100 * cumulative dose / total planned dose. | |
| End point type | Secondary |
| End point timeframe: Up to approximately 49 months | |

| End point values | Obinutuzumab Exposure for MCL | Atezolizumab Exposure for MCL | Obinutuzumab Exposure for WM | Atezolizumab Exposure for WM |
|--------------------------------------|-------------------------------|-------------------------------|------------------------------|------------------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 30 | 30 | 4 | 4 |
| Units: Percentage | | | | |
| arithmetic mean (standard deviation) | 100.0 (± 0.00) | 100.0 (± 0.00) | 100.0 (± 0.00) | 100.0 (± 0.00) |

| End point values | Rituximab Exposure for MZL | Atezolizumab Exposure for MZL | | |
|--------------------------------------|----------------------------|-------------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 21 | 21 | | |
| Units: Percentage | | | | |
| arithmetic mean (standard deviation) | 100.1 (± 0.21) | 100.0 (± 0.00) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Total Number of Infusions/Injections Modified

| | |
|------------------------|--|
| End point title | Total Number of Infusions/Injections Modified |
| End point description: | Total number of infusions/injections modified (dose reductions and interruptions). |
| End point type | Secondary |
| End point timeframe: | Up to approximately 49 months |

| End point values | Obinutuzumab Exposure for MCL | Atezolizumab Exposure for MCL | Obinutuzumab Exposure for WM | Atezolizumab Exposure for WM |
|---------------------------------------|-------------------------------|-------------------------------|------------------------------|------------------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 30 | 30 | 4 | 4 |
| Units: Number of infusions/injections | | | | |
| arithmetic mean (standard deviation) | 0.1 (± 0.35) | 0.00 (± 0.00) | 0.00 (± 0.00) | 0.0 (± 0.00) |

| End point values | Rituximab Exposure for MZL | Atezolizumab Exposure for MZL | | |
|---------------------------------------|----------------------------|-------------------------------|--|--|
| Subject group type | Subject analysis set | Subject analysis set | | |
| Number of subjects analysed | 21 | 21 | | |
| Units: Number of infusions/injections | | | | |
| arithmetic mean (standard deviation) | 0.2 (± 0.40) | 0.0 (± 0.00) | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Atezolizumab PK Concentration

| | |
|------------------------|--|
| End point title | Atezolizumab PK Concentration |
| End point description: | Atezolizumab PK Concentration. Note: 888888=Non-Reportable. 999999=non evaluable |
| End point type | Secondary |
| End point timeframe: | Cycle 1 Day 1 (pre-dose and 30 minutes), Cycle 2 pre-dose, Cycle 3 pre-dose, Cycle 4 pre-dose, Cycle 8 pre-dose, Cycle 12 pre-dose, Cycle 16 pre-dose, End of treatment, Post treatment follow-up period. (Cycle length=21 days) |

| End point values | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Obinutuzumab for WM | Atezolizumab + Rituximab for MZL | |
|--------------------------------------|-------------------------------------|------------------------------------|----------------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 28 | 4 | 21 | |
| Units: ug/mL | | | | |
| arithmetic mean (standard deviation) | | | | |
| Cycle 1 Day 1/ Predose (n=28, 21, 4) | 888888 (± 888888) | 888888 (± 888888) | 888888 (± 888888) | |
| Cycle 1 Day 1/ 30 Min (n=28, 21, 4) | 371 (± 92.2) | 308 (± 70.4) | 366 (± 161) | |
| Cycle 2/ Predose (n=28, 20, 3) | 90.4 (± 35.6) | 76.5 (± 29.8) | 101 (± 28.6) | |
| Cycle 3/ Predose (n=24, 18, 3) | 176 (± 109) | 138 (± 77.4) | 189 (± 47.8) | |
| Cycle 4/ Predose (n=23, 17, 3) | 209 (± 77.8) | 189 (± 103) | 214 (± 58.1) | |
| Cycle 8/ Predose (n=13, 14, 2) | 303 (± 90.3) | 371 (± 58.7) | 297 (± 96.7) | |
| Cycle 12/ Predose (n=10, 14, 1) | 399 (± 114) | 89.7 (± 999999) | 317 (± 101) | |
| Cycle 16/ Predose (n=8, 11, 1) | 447 (± 135) | 104 (± 999999) | 357 (± 142) | |
| End of Treatment (n=23, 18, 2) | 272 (± 167) | 185 (± 124) | 249 (± 140) | |
| Pose Trt FU Period (n=9, 6, 1) | 67.2 (± 63.2) | 2.26 (± 999999) | 46.0 (± 38.0) | |

Statistical analyses

No statistical analyses for this end point

Secondary: Obinutuzumab PK Concentration

| | |
|------------------------|---|
| End point title | Obinutuzumab PK Concentration ^[14] |
| End point description: | Obinutuzumab PK Concentration. Note: 888888=Non-Reportable |
| End point type | Secondary |
| End point timeframe: | Cycle 1 Day 1 (pre-dose and 4 hours), Cycle 2 pre-dose, Cycle 4 pre-dose, End of treatment, Post treatment follow-up period. (Cycle length=21 days) |

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: No statistical analysis for this end point.

| End point values | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Obinutuzumab for WM | | |
|--------------------------------------|-------------------------------------|------------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 27 | 4 | | |
| Units: ug/mL | | | | |
| arithmetic mean (standard deviation) | | | | |
| Cycle 1 Day 1, Predose (n=27,3) | 888888 (± 888888) | 888888 (± 888888) | | |
| Cycle 1 day 1,4 hours (n=24, 4) | 268 (± 81.7) | 231 (± 79.4) | | |
| Cycle 2,Predose (n=27, 3) | 313 (± 144) | 216 (± 214) | | |
| Cycle 4,Predose (n=22, 3) | 320 (± 221) | 209 (± 263) | | |
| End of Treatment (n=14, 2) | 167 (± 217) | 264 (± 6.36) | | |

| | | | | |
|---------------------------------|---------------|-------------------|--|--|
| Post Trt Follow-Up Period (n=4) | 31.9 (± 53.6) | 888888 (± 888888) | | |
|---------------------------------|---------------|-------------------|--|--|

Statistical analyses

No statistical analyses for this end point

Secondary: Rituximab PK Concentrations

| | |
|-----------------|---|
| End point title | Rituximab PK Concentrations ^[15] |
|-----------------|---|

End point description:

Rituximab PK concentrations Note: 888888=non-reportable.

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

End point timeframe:

Cycle 1 Day 1 pre-dose, Cycle 1 Day 1 30 minutes, Cycle 2 pre-dose, Cycle 4 pre-dose, Cycle 8 pre-dose, End of Treatment, Post Treatment Follow-Up Period

Notes:

[15] - 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: No statistical analysis for this end point.

| End point values | Atezolizumab + Rituximab for MZL | | | |
|--------------------------------------|----------------------------------|--|--|--|
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 21 | | | |
| Units: ug/mL | | | | |
| arithmetic mean (standard deviation) | | | | |
| Cycle 1 Day 1/pre-dose (n=21) | 888888 (± 888888) | | | |
| Cycle 1 Day 1/ 30 min (n=21) | 124 (± 98.2) | | | |
| Cycle 2/ pre-dose (n=20) | 31.5 (± 24.1) | | | |
| Cycle 4/ pre-dose (n=18) | 89.3 (± 56.7) | | | |
| Cycle 8/ pre-dose (n=14) | 175 (± 64.0) | | | |
| End of Treatment (n=18) | 19.7 (± 46.4) | | | |
| Post TRT FU Period (n=6) | 888888 (± 888888) | | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Incidence of anti-drug antibodies (ADAs) to Atezolizumab

| | |
|-----------------|--|
| End point title | Incidence of anti-drug antibodies (ADAs) to Atezolizumab |
|-----------------|--|

End point description:

Incidence of anti-drug antibodies (ADAs) to atezolizumab.

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

End point timeframe:
Baseline and Post Baseline

| End point values | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Obinutuzumab for WM | Atezolizumab + Rituximab for MZL | |
|---------------------------------|---|--|--|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 28 | 4 | 21 | |
| Units: Number of participants | | | | |
| Baseline Prevalence of ADAs | 0 | 0 | 1 | |
| Post-Baseline Incidence of ADAs | 1 | 0 | 0 | |

Statistical analyses

No statistical analyses for this end point

Secondary: Incidence of anti-drug antibodies (ADAs) to Rituximab

End point title | Incidence of anti-drug antibodies (ADAs) to Rituximab^[16]

End point description:

End point type | Secondary

End point timeframe:

Baseline and Post Baseline

Notes:

[16] - 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: No statistical analysis for this end point.

| End point values | Atezolizumab + Rituximab for MZL | | | |
|---------------------------------|--|--|--|--|
| Subject group type | Reporting group | | | |
| Number of subjects analysed | 21 | | | |
| Units: Number of Participants | | | | |
| Baseline Prevalence of ADAs | 4 | | | |
| Post-Baseline Incidence of ADAs | 19 | | | |

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

From the first study drug to the data cutoff date: January 14, 2022 (up to approximately 49 months)

Adverse event reporting additional description:

The safety population will include all enrolled patients who received at least one dose of study drug (atezolizumab, obinutuzumab or rituximab). Data cutoff date: 14 January 2022 (up to approximately 49 months).

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

Dictionary used

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

| | |
|--------------------|----|
| Dictionary version | 18 |
|--------------------|----|

Reporting groups

| | |
|-----------------------|-------------------------------------|
| Reporting group title | Atezolizumab + Obinutuzumab for MCL |
|-----------------------|-------------------------------------|

Reporting group description:

Participants with refractory or relapsed Mantle Cell Lymphoma (MCL) received atezolizumab in combination with obinutuzumab during the induction phase (Cycles 1-8), and Atezolizumab during the maintenance phase (Cycles 9-18).

| | |
|-----------------------|----------------------------------|
| Reporting group title | Atezolizumab + Rituximab for MZL |
|-----------------------|----------------------------------|

Reporting group description:

Participants with Marginal Zone Lymphoma (MZL) received atezolizumab in combination with rituximab during the induction phase (Cycles 1-8), and Atezolizumab during the maintenance phase (Cycles 9-18).

| | |
|-----------------------|------------------------------------|
| Reporting group title | Atezolizumab + Obinutuzumab for WM |
|-----------------------|------------------------------------|

Reporting group description:

Participants with Waldenström Macroglobulinemia (WM) received atezolizumab plus obinutuzumab during the induction phase (Cycles 1-8), and Atezolizumab during the maintenance phase (Cycles 9-18).

| Serious adverse events | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Rituximab for MZL | Atezolizumab + Obinutuzumab for WM |
|---|-------------------------------------|----------------------------------|------------------------------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 9 / 30 (30.00%) | 5 / 21 (23.81%) | 0 / 4 (0.00%) |
| number of deaths (all causes) | 16 | 7 | 1 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Injury, poisoning and procedural complications | | | |
| Hip fracture | | | |
| subjects affected / exposed | 1 / 30 (3.33%) | 0 / 21 (0.00%) | 0 / 4 (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 |
| Vascular disorders | | | |
| Pelvic venous thrombosis | | | |

| | | | |
|---|----------------|----------------|---------------|
| subjects affected / exposed | 1 / 30 (3.33%) | 0 / 21 (0.00%) | 0 / 4 (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 |
| Cardiac disorders | | | |
| Atrial fibrillation | | | |
| subjects affected / exposed | 1 / 30 (3.33%) | 0 / 21 (0.00%) | 0 / 4 (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 |
| Cardiac failure | | | |
| subjects affected / exposed | 1 / 30 (3.33%) | 0 / 21 (0.00%) | 0 / 4 (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 | 1 / 30 (3.33%) | 0 / 21 (0.00%) | 0 / 4 (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 |
| Nervous system disorders | | | |
| Syncope | | | |
| subjects affected / exposed | 1 / 30 (3.33%) | 0 / 21 (0.00%) | 0 / 4 (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 |
| General disorders and administration site conditions | | | |
| Pyrexia | | | |
| subjects affected / exposed | 0 / 30 (0.00%) | 1 / 21 (4.76%) | 0 / 4 (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 |
| Blood and lymphatic system disorders | | | |
| Anaemia | | | |
| subjects affected / exposed | 0 / 30 (0.00%) | 1 / 21 (4.76%) | 0 / 4 (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 |
| Febrile neutropenia | | | |

| | | | |
|---|----------------|----------------|---------------|
| subjects affected / exposed | 0 / 30 (0.00%) | 1 / 21 (4.76%) | 0 / 4 (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 |
| Gastrointestinal disorders | | | |
| Ascites | | | |
| subjects affected / exposed | 1 / 30 (3.33%) | 0 / 21 (0.00%) | 0 / 4 (0.00%) |
| occurrences causally related to treatment / all | 2 / 2 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Skin and subcutaneous tissue disorders | | | |
| Dermatitis allergic | | | |
| subjects affected / exposed | 0 / 30 (0.00%) | 1 / 21 (4.76%) | 0 / 4 (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 |
| Infections and infestations | | | |
| Infection | | | |
| subjects affected / exposed | 1 / 30 (3.33%) | 0 / 21 (0.00%) | 0 / 4 (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 | 2 / 30 (6.67%) | 1 / 21 (4.76%) | 0 / 4 (0.00%) |
| occurrences causally related to treatment / all | 1 / 2 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 1 | 0 / 0 |
| Cytomegalovirus infection | | | |
| subjects affected / exposed | 1 / 30 (3.33%) | 0 / 21 (0.00%) | 0 / 4 (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 |
| Sepsis | | | |
| subjects affected / exposed | 2 / 30 (6.67%) | 0 / 21 (0.00%) | 0 / 4 (0.00%) |
| occurrences causally related to treatment / all | 1 / 2 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Respiratory tract infection | | | |
| subjects affected / exposed | 1 / 30 (3.33%) | 0 / 21 (0.00%) | 0 / 4 (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 |

| | | | |
|---|----------------|----------------|---------------|
| Bacterial sepsis | | | |
| subjects affected / exposed | 0 / 30 (0.00%) | 1 / 21 (4.76%) | 0 / 4 (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 |

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

| Non-serious adverse events | Atezolizumab + Obinutuzumab for MCL | Atezolizumab + Rituximab for MZL | Atezolizumab + Obinutuzumab for WM |
|---|---|-------------------------------------|--|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 27 / 30 (90.00%) | 18 / 21 (85.71%) | 4 / 4 (100.00%) |
| Vascular disorders | | | |
| Lymphoedema | | | |
| subjects affected / exposed | 0 / 30 (0.00%) | 0 / 21 (0.00%) | 1 / 4 (25.00%) |
| occurrences (all) | 0 | 0 | 1 |
| Phlebitis | | | |
| subjects affected / exposed | 2 / 30 (6.67%) | 0 / 21 (0.00%) | 0 / 4 (0.00%) |
| occurrences (all) | 2 | 0 | 0 |
| Hypotension | | | |
| subjects affected / exposed | 1 / 30 (3.33%) | 2 / 21 (9.52%) | 0 / 4 (0.00%) |
| occurrences (all) | 1 | 2 | 0 |
| General disorders and administration site conditions | | | |
| Asthenia | | | |
| subjects affected / exposed | 4 / 30 (13.33%) | 2 / 21 (9.52%) | 0 / 4 (0.00%) |
| occurrences (all) | 5 | 2 | 0 |
| Pain | | | |
| subjects affected / exposed | 0 / 30 (0.00%) | 2 / 21 (9.52%) | 0 / 4 (0.00%) |
| occurrences (all) | 0 | 2 | 0 |
| Pyrexia | | | |
| subjects affected / exposed | 3 / 30 (10.00%) | 3 / 21 (14.29%) | 0 / 4 (0.00%) |
| occurrences (all) | 4 | 7 | 0 |
| Fatigue | | | |
| subjects affected / exposed | 2 / 30 (6.67%) | 4 / 21 (19.05%) | 1 / 4 (25.00%) |
| occurrences (all) | 2 | 4 | 1 |
| Oedema peripheral | | | |

| | | | |
|--|----------------------|---------------------|---------------------|
| subjects affected / exposed occurrences (all) | 3 / 30 (10.00%) 3 | 1 / 21 (4.76%) 1 | 0 / 4 (0.00%) 0 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Dyspnoea subjects affected / exposed occurrences (all) | 2 / 30 (6.67%) 2 | 1 / 21 (4.76%) 1 | 0 / 4 (0.00%) 0 |
| Cough subjects affected / exposed occurrences (all) | 3 / 30 (10.00%) 4 | 2 / 21 (9.52%) 3 | 2 / 4 (50.00%) 2 |
| Rhinorrhoea subjects affected / exposed occurrences (all) | 3 / 30 (10.00%) 3 | 0 / 21 (0.00%) 0 | 0 / 4 (0.00%) 0 |
| Psychiatric disorders | | | |
| Insomnia subjects affected / exposed occurrences (all) | 1 / 30 (3.33%) 1 | 2 / 21 (9.52%) 2 | 0 / 4 (0.00%) 0 |
| Anxiety subjects affected / exposed occurrences (all) | 1 / 30 (3.33%) 1 | 2 / 21 (9.52%) 2 | 0 / 4 (0.00%) 0 |
| Investigations | | | |
| Neutrophil count decreased subjects affected / exposed occurrences (all) | 2 / 30 (6.67%) 4 | 0 / 21 (0.00%) 0 | 1 / 4 (25.00%) 2 |
| Lymphocyte count decreased subjects affected / exposed occurrences (all) | 0 / 30 (0.00%) 0 | 0 / 21 (0.00%) 0 | 1 / 4 (25.00%) 1 |
| Blood alkaline phosphatase increased subjects affected / exposed occurrences (all) | 2 / 30 (6.67%) 5 | 0 / 21 (0.00%) 0 | 0 / 4 (0.00%) 0 |
| Platelet count decreased subjects affected / exposed occurrences (all) | 5 / 30 (16.67%) 7 | 0 / 21 (0.00%) 0 | 1 / 4 (25.00%) 1 |
| Injury, poisoning and procedural complications | | | |
| Infusion related reaction subjects affected / exposed occurrences (all) | 0 / 30 (0.00%) 0 | 2 / 21 (9.52%) 2 | 1 / 4 (25.00%) 1 |

| | | | |
|--------------------------------------|-----------------|-----------------|----------------|
| Cardiac disorders | | | |
| Palpitations | | | |
| subjects affected / exposed | 0 / 30 (0.00%) | 0 / 21 (0.00%) | 1 / 4 (25.00%) |
| occurrences (all) | 0 | 0 | 1 |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 2 / 30 (6.67%) | 4 / 21 (19.05%) | 1 / 4 (25.00%) |
| occurrences (all) | 2 | 4 | 1 |
| Dizziness | | | |
| subjects affected / exposed | 2 / 30 (6.67%) | 1 / 21 (4.76%) | 0 / 4 (0.00%) |
| occurrences (all) | 2 | 2 | 0 |
| Dysgeusia | | | |
| subjects affected / exposed | 1 / 30 (3.33%) | 2 / 21 (9.52%) | 0 / 4 (0.00%) |
| occurrences (all) | 2 | 2 | 0 |
| Paraesthesia | | | |
| subjects affected / exposed | 0 / 30 (0.00%) | 2 / 21 (9.52%) | 1 / 4 (25.00%) |
| occurrences (all) | 0 | 2 | 2 |
| Neuropathy peripheral | | | |
| subjects affected / exposed | 0 / 30 (0.00%) | 2 / 21 (9.52%) | 0 / 4 (0.00%) |
| occurrences (all) | 0 | 2 | 0 |
| Blood and lymphatic system disorders | | | |
| Thrombocytopenia | | | |
| subjects affected / exposed | 6 / 30 (20.00%) | 1 / 21 (4.76%) | 3 / 4 (75.00%) |
| occurrences (all) | 11 | 1 | 6 |
| Autoimmune haemolytic anaemia | | | |
| subjects affected / exposed | 0 / 30 (0.00%) | 0 / 21 (0.00%) | 1 / 4 (25.00%) |
| occurrences (all) | 0 | 0 | 1 |
| Anaemia | | | |
| subjects affected / exposed | 6 / 30 (20.00%) | 4 / 21 (19.05%) | 0 / 4 (0.00%) |
| occurrences (all) | 8 | 4 | 0 |
| Leukopenia | | | |
| subjects affected / exposed | 1 / 30 (3.33%) | 1 / 21 (4.76%) | 2 / 4 (50.00%) |
| occurrences (all) | 1 | 1 | 3 |
| Lymphopenia | | | |
| subjects affected / exposed | 1 / 30 (3.33%) | 0 / 21 (0.00%) | 1 / 4 (25.00%) |
| occurrences (all) | 1 | 0 | 1 |
| Iron deficiency anaemia | | | |

| | | | |
|--|-----------------------|----------------------|---------------------|
| subjects affected / exposed occurrences (all) | 1 / 30 (3.33%) 1 | 0 / 21 (0.00%) 0 | 1 / 4 (25.00%) 3 |
| Febrile neutropenia subjects affected / exposed occurrences (all) | 2 / 30 (6.67%) 2 | 0 / 21 (0.00%) 0 | 0 / 4 (0.00%) 0 |
| Neutropenia subjects affected / exposed occurrences (all) | 6 / 30 (20.00%) 12 | 3 / 21 (14.29%) 5 | 1 / 4 (25.00%) 1 |
| Ear and labyrinth disorders Hypoacusis subjects affected / exposed occurrences (all) | 0 / 30 (0.00%) 0 | 0 / 21 (0.00%) 0 | 1 / 4 (25.00%) 1 |
| Vertigo subjects affected / exposed occurrences (all) | 0 / 30 (0.00%) 0 | 0 / 21 (0.00%) 0 | 1 / 4 (25.00%) 1 |
| Gastrointestinal disorders Toothache subjects affected / exposed occurrences (all) | 2 / 30 (6.67%) 2 | 1 / 21 (4.76%) 1 | 0 / 4 (0.00%) 0 |
| Dyspepsia subjects affected / exposed occurrences (all) | 1 / 30 (3.33%) 1 | 1 / 21 (4.76%) 1 | 1 / 4 (25.00%) 1 |
| Diarrhoea subjects affected / exposed occurrences (all) | 3 / 30 (10.00%) 5 | 3 / 21 (14.29%) 3 | 0 / 4 (0.00%) 0 |
| Vomiting subjects affected / exposed occurrences (all) | 2 / 30 (6.67%) 2 | 3 / 21 (14.29%) 3 | 0 / 4 (0.00%) 0 |
| Constipation subjects affected / exposed occurrences (all) | 1 / 30 (3.33%) 1 | 2 / 21 (9.52%) 2 | 1 / 4 (25.00%) 1 |
| Hepatobiliary disorders Hepatitis toxic subjects affected / exposed occurrences (all) | 0 / 30 (0.00%) 0 | 0 / 21 (0.00%) 0 | 1 / 4 (25.00%) 1 |
| Skin and subcutaneous tissue disorders | | | |

| | | | |
|--|--|---|---|
| Rash subjects affected / exposed occurrences (all) | 1 / 30 (3.33%) 1 | 2 / 21 (9.52%) 2 | 0 / 4 (0.00%) 0 |
| Renal and urinary disorders Dysuria subjects affected / exposed occurrences (all) | 2 / 30 (6.67%) 2 | 0 / 21 (0.00%) 0 | 0 / 4 (0.00%) 0 |
| Endocrine disorders Hypothyroidism subjects affected / exposed occurrences (all) | 2 / 30 (6.67%) 2 | 1 / 21 (4.76%) 1 | 0 / 4 (0.00%) 0 |
| Musculoskeletal and connective tissue disorders Pain in extremity subjects affected / exposed occurrences (all) Arthralgia subjects affected / exposed occurrences (all) | 0 / 30 (0.00%) 0 2 / 30 (6.67%) 2 | 0 / 21 (0.00%) 0 3 / 21 (14.29%) 7 | 1 / 4 (25.00%) 1 1 / 4 (25.00%) 1 |
| Infections and infestations Pneumonia subjects affected / exposed occurrences (all) Urinary tract infection subjects affected / exposed occurrences (all) Upper respiratory tract infection subjects affected / exposed occurrences (all) Bronchitis subjects affected / exposed occurrences (all) Pharyngitis subjects affected / exposed occurrences (all) Respiratory tract infection | 1 / 30 (3.33%) 1 2 / 30 (6.67%) 2 2 / 30 (6.67%) 2 3 / 30 (10.00%) 3 0 / 30 (0.00%) 0 | 2 / 21 (9.52%) 3 0 / 21 (0.00%) 0 0 / 21 (0.00%) 0 1 / 21 (4.76%) 1 0 / 21 (0.00%) 0 | 0 / 4 (0.00%) 0 0 / 4 (0.00%) 0 0 / 4 (0.00%) 0 0 / 4 (0.00%) 0 1 / 4 (25.00%) 1 |

| | | | |
|--|----------------------|---------------------|---------------------|
| subjects affected / exposed occurrences (all) | 3 / 30 (10.00%) 3 | 0 / 21 (0.00%) 0 | 0 / 4 (0.00%) 0 |
| Nasopharyngitis subjects affected / exposed occurrences (all) | 1 / 30 (3.33%) 1 | 2 / 21 (9.52%) 2 | 0 / 4 (0.00%) 0 |
| Metabolism and nutrition disorders | | | |
| Hyperglycaemia subjects affected / exposed occurrences (all) | 2 / 30 (6.67%) 2 | 0 / 21 (0.00%) 0 | 0 / 4 (0.00%) 0 |
| Decreased appetite subjects affected / exposed occurrences (all) | 1 / 30 (3.33%) 1 | 0 / 21 (0.00%) 0 | 1 / 4 (25.00%) 1 |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|------------------|--|
| 07 November 2018 | Protocol was amended to include adjustment to the study sample size, and to clarify that access to atezolizumab is only within the 18 cycles of study treatment per the study design. In addition, several clarifications have been made relating to the conduct of the study and to update all safety, efficacy, and licensing status text for atezolizumab, obinutuzumab, and rituximab. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported