



Clinical trial results:

A Phase 3, Randomized Study of Margetuximab Plus Chemotherapy vs Trastuzumab Plus Chemotherapy in the Treatment of Patients with HER2+ Metastatic Breast Cancer Who Have Received Prior Anti-HER2 Therapies and Require Systemic Treatment.

Summary

| | |
|--------------------------|----------------------------------|
| EudraCT number | 2015-000380-13 |
| Trial protocol | BE DE PT CZ AT FI ES DK FR PL IT |
| Global end of trial date | 14 June 2022 |

Results information

| | |
|--------------------------------|--------------|
| Result version number | v1 (current) |
| This version publication date | 18 June 2023 |
| First version publication date | 18 June 2023 |

Trial information

Trial identification

| | |
|-----------------------|--------------|
| Sponsor protocol code | CP-MGAH22-04 |
|-----------------------|--------------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT02492711 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|---|
| Sponsor organisation name | MacroGenics, Inc |
| Sponsor organisation address | 9704 Medical Center Dr., Rockville, United States, 20850 |
| Public contact | Global Trial Manager, MacroGenics, Inc., 001 3012515172, info@macrogenics.com |
| Scientific contact | Global Trial Manager, MacroGenics, Inc., 001 3012515172, info@macrogenics.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 June 2022 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 14 June 2022 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

The primary objective of this study is to evaluate the efficacy, as measured by progression-free survival (PFS) assessed by independent review and overall survival (OS), of margetuximab plus chemotherapy compared with trastuzumab plus chemotherapy in patients with advanced HER2+ breast cancer who have received at least 2 prior lines of anti-HER2 directed therapy in the metastatic setting, or in case of having received (neo)adjuvant pertuzumab, at least 1 prior line of antiHER2 directed therapy in the metastatic setting, and who have received at least one, and no more than three, lines of therapy overall in the metastatic setting.

Protection of trial subjects:

The trial was designed, conducted, and monitored in accordance with ethical principles that have their origin in the Declaration of Helsinki and in compliance with Good Clinical Practice (GCP) as required by the major regulatory authorities, and in accordance with all national and local laws and regulations of countries in which the trial was performed.

Background therapy:

Physician's choice of chemotherapy - Capecitabine (Xeloda®): 1000 mg/m² BID for 14 days in a 21-day cycle, or Eribulin (Halaven®): 1.4 mg/m² on days 1 and 8 of a 21-day cycle, or Gemcitabine (Gemzar®): 1000 mg/m² on days 1 and 8 of a 21-day cycle, or Vinorelbine (Navelbine®): 25-30 mg/m² on days 1 and 8 of a 21-day cycle

Evidence for comparator: -

| | |
|---|--------------|
| Actual start date of recruitment | 15 July 2015 |
| Long term follow-up planned | No |
| Independent data monitoring committee (IDMC) involvement? | Yes |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|--------------------|
| Country: Number of subjects enrolled | Netherlands: 7 |
| Country: Number of subjects enrolled | Poland: 10 |
| Country: Number of subjects enrolled | Portugal: 13 |
| Country: Number of subjects enrolled | Spain: 61 |
| Country: Number of subjects enrolled | United Kingdom: 14 |
| Country: Number of subjects enrolled | Austria: 4 |
| Country: Number of subjects enrolled | Belgium: 31 |
| Country: Number of subjects enrolled | Czechia: 12 |
| Country: Number of subjects enrolled | Denmark: 16 |
| Country: Number of subjects enrolled | Finland: 4 |
| Country: Number of subjects enrolled | France: 40 |

| | |
|--------------------------------------|------------------------|
| Country: Number of subjects enrolled | Germany: 17 |
| Country: Number of subjects enrolled | Italy: 89 |
| Country: Number of subjects enrolled | Canada: 12 |
| Country: Number of subjects enrolled | Israel: 41 |
| Country: Number of subjects enrolled | Korea, Republic of: 31 |
| Country: Number of subjects enrolled | Puerto Rico: 4 |
| Country: Number of subjects enrolled | United States: 218 |
| Worldwide total number of subjects | 624 |
| EEA total number of subjects | 304 |

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) | 490 |
| From 65 to 84 years | 132 |
| 85 years and over | 2 |

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details:

Before randomization, Investigators selected 1 of 4 chemotherapy agents (capecitabine, eribulin, gemcitabine, or vinorelbine) for each subject. Subjects were then randomized 1:1 to receive either margetuximab or trastuzumab with the selected chemotherapy. An non-randomized cohort was later added to evaluate lower infusion duration of margetuximab.

Period 1

| | |
|------------------------------|-------------------------|
| Period 1 title | Overall Study |
| Is this the baseline period? | Yes |
| Allocation method | Randomised - controlled |
| Blinding used | Not blinded |

Arms

| | |
|------------------------------|-----|
| Are arms mutually exclusive? | Yes |
|------------------------------|-----|

| | |
|------------------|--------------------------------|
| Arm title | Margetuximab Plus Chemotherapy |
|------------------|--------------------------------|

Arm description:

Margetuximab 15 mg/kg administered every 21 days with physician's choice of 1 of 4 backbone chemotherapy regimens

| | |
|--|-----------------|
| Arm type | Experimental |
| Investigational medicinal product name | margetuximab |
| Investigational medicinal product code | |
| Other name | MGAH22 |
| Pharmaceutical forms | Injection |
| Routes of administration | Intravenous use |

Dosage and administration details:

Margetuximab 15 mg/kg administered every 21 days

| | |
|------------------|-------------------------------|
| Arm title | Trastuzumab Plus Chemotherapy |
|------------------|-------------------------------|

Arm description:

Trastuzumab administered every 21 days with physician's choice of 1 of 4 backbone chemotherapy regimens

| | |
|--|-------------------|
| Arm type | Active comparator |
| Investigational medicinal product name | trastuzumab |
| Investigational medicinal product code | |
| Other name | Herceptin |
| Pharmaceutical forms | Injection |
| Routes of administration | Intravenous use |

Dosage and administration details:

Trastuzumab 8 mg/kg initial dose then 6 mg/kg given every 21 days

| | |
|------------------|--------------------------------|
| Arm title | Margetuximab Infusion Substudy |
|------------------|--------------------------------|

Arm description:

Margetuximab with or without chemotherapy administered as a 120 minute first infusion in Cycle 1 followed by 60-minute or 30-minute infusion in Cycle 2

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

| | |
|--|-----------------|
| Investigational medicinal product name | margetuximab |
| Investigational medicinal product code | |
| Other name | MGAH22 |
| Pharmaceutical forms | Injection |
| Routes of administration | Intravenous use |

Dosage and administration details:

Margetuximab 15 mg/kg administered every 21 days, as a 120 minute first infusion in Cycle 1 followed by 60-minute or 30-minute infusion in Cycle 2

| Number of subjects in period 1 | Margetuximab Plus Chemotherapy | Trastuzumab Plus Chemotherapy | Margetuximab Infusion Substudy |
|--------------------------------|--------------------------------|-------------------------------|--------------------------------|
| Started | 266 | 270 | 88 |
| Completed | 230 | 230 | 75 |
| Not completed | 36 | 40 | 13 |
| Consent withdrawn by subject | 10 | 16 | 5 |
| Physician decision | 10 | 6 | 4 |
| Adverse event, non-fatal | 9 | 9 | 2 |
| Death | 3 | 3 | - |
| Other | - | - | 1 |
| Study treatment delay | 2 | 1 | - |
| Never treated | 2 | 4 | - |
| Lost to follow-up | - | - | 1 |
| Change in chemotherapy | - | 1 | - |

Period 2

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

Arms

| | |
|------------------------------|-----------------------|
| Are arms mutually exclusive? | Yes |
| Arm title | Margetuximab Stage A1 |

Arm description:

Margetuximab administered as a 120 minute first infusion in Cycle 1 followed by 60 minute infusion in Cycle 2

| | |
|--|-----------------|
| Arm type | Experimental |
| Investigational medicinal product name | margetuximab |
| Investigational medicinal product code | |
| Other name | MGAH22 |
| Pharmaceutical forms | Injection |
| Routes of administration | Intravenous use |

Dosage and administration details:

Margetuximab 15 mg/kg administered every 21 days

| | |
|------------------|-----------------------|
| Arm title | Margetuximab Stage A2 |
|------------------|-----------------------|

Arm description:

Margetuximab administered as a 120 minute first infusion in Cycle 1 followed by 30 minute infusion in Cycle 2

| | |
|--|-----------------|
| Arm type | Experimental |
| Investigational medicinal product name | margetuximab |
| Investigational medicinal product code | |
| Other name | MGAH22 |
| Pharmaceutical forms | Injection |
| Routes of administration | Intravenous use |

Dosage and administration details:

Margetuximab 15 mg/kg administered every 21 days

| | |
|------------------|----------------------|
| Arm title | Margetuximab Stage B |
|------------------|----------------------|

Arm description:

Margetuximab administered as a 120 minute first infusion in Cycle 1 followed by 30 minute infusion in Cycle 2

| | |
|--|-----------------|
| Arm type | Experimental |
| Investigational medicinal product name | margetuximab |
| Investigational medicinal product code | |
| Other name | MGAH22 |
| Pharmaceutical forms | Injection |
| Routes of administration | Intravenous use |

Dosage and administration details:

Margetuximab 15 mg/kg administered every 21 days

| Number of subjects in period 2^[1] | Margetuximab Stage A1 | Margetuximab Stage A2 | Margetuximab Stage B |
|---|-----------------------|-----------------------|----------------------|
| | | | |
| Started | 8 | 9 | 71 |
| Completed | 8 | 9 | 71 |

Notes:

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

Justification: Period 2 consists of an additional non-randomized cohort that evaluated lower infusion duration of margetuximab. This period is separate from the preceding period.

Baseline characteristics

Reporting groups

| | |
|---|--------------------------------|
| Reporting group title | Margetuximab Plus Chemotherapy |
| Reporting group description: Margetuximab 15 mg/kg administered every 21 days with physician's choice of 1 of 4 backbone chemotherapy regimens | |
| Reporting group title | Trastuzumab Plus Chemotherapy |
| Reporting group description: Trastuzumab administered every 21 days with physician's choice of 1 of 4 backbone chemotherapy regimens | |
| Reporting group title | Margetuximab Infusion Substudy |
| Reporting group description: Margetuximab with or without chemotherapy administered as a 120 minute first infusion in Cycle 1 followed by 60-minute or 30-minute infusion in Cycle 2 | |

| Reporting group values | Margetuximab Plus Chemotherapy | Trastuzumab Plus Chemotherapy | Margetuximab Infusion Substudy |
|---|--------------------------------|-------------------------------|--------------------------------|
| Number of subjects | 266 | 270 | 88 |
| 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 | 54.4 | 55.7 | 54.5 |
| standard deviation | ± 11.4 | ± 11.5 | ± 12.5 |
| Gender categorical Units: Subjects | | | |
| Female | 266 | 267 | 87 |
| Male | 0 | 3 | 1 |

| Reporting group values | Total | | |
|---|-----------------------|--|--|
| Number of subjects | 624 | | |
| 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) | 0 0 0 0 0 | | |

| | | | |
|---------------------------|-----|--|--|
| Adolescents (12-17 years) | 0 | | |
| Adults (18-64 years) | 0 | | |
| From 65-84 years | 0 | | |
| 85 years and over | 0 | | |
| Age continuous | | | |
| Units: years | | | |
| arithmetic mean | | | |
| standard deviation | - | | |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 620 | | |
| Male | 4 | | |

End points

End points reporting groups

| | |
|---|--------------------------------|
| Reporting group title | Margetuximab Plus Chemotherapy |
| Reporting group description: Margetuximab 15 mg/kg administered every 21 days with physician's choice of 1 of 4 backbone chemotherapy regimens | |
| Reporting group title | Trastuzumab Plus Chemotherapy |
| Reporting group description: Trastuzumab administered every 21 days with physician's choice of 1 of 4 backbone chemotherapy regimens | |
| Reporting group title | Margetuximab Infusion Substudy |
| Reporting group description: Margetuximab with or without chemotherapy administered as a 120 minute first infusion in Cycle 1 followed by 60-minute or 30-minute infusion in Cycle 2 | |
| Reporting group title | Margetuximab Stage A1 |
| Reporting group description: Margetuximab administered as a 120 minute first infusion in Cycle 1 followed by 60 minute infusion in Cycle 2 | |
| Reporting group title | Margetuximab Stage A2 |
| Reporting group description: Margetuximab administered as a 120 minute first infusion in Cycle 1 followed by 30 minute infusion in Cycle 2 | |
| Reporting group title | Margetuximab Stage B |
| Reporting group description: Margetuximab administered as a 120 minute first infusion in Cycle 1 followed by 30 minute infusion in Cycle 2 | |

Primary: Progression-free Survival (PFS) as Determined by Independent Radiological Review.

| | |
|--|--|
| End point title | Progression-free Survival (PFS) as Determined by Independent Radiological Review. ^[1] |
| End point description: PFS is measured from the time of randomization until first documented disease progression or death from any cause, whichever is first. | |
| End point type | Primary |
| End point timeframe: Tumor assessments are conducted every 6 weeks for the first 24 weeks and then every 24 weeks until progression of cancer, average 5 months. | |
| Notes: [1] - 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: This endpoint is not relevant to the infusion sub-study arm. | |

| End point values | Margetuximab Plus Chemotherapy | Trastuzumab Plus Chemotherapy | | |
|----------------------------------|--------------------------------|-------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 266 | 270 | | |
| Units: months | | | | |
| median (confidence interval 95%) | 5.8 (5.52 to 6.97) | 4.9 (4.17 to 5.59) | | |

Statistical analyses

| | |
|--|--|
| Statistical analysis title | Statistical Analysis 1 |
| Statistical analysis description: Stratified Cox Proportional Model | |
| Comparison groups | Trastuzumab Plus Chemotherapy v Margetuximab Plus Chemotherapy |
| Number of subjects included in analysis | 536 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0334 |
| Method | Logrank |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.76 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.593 |
| upper limit | 0.979 |

Primary: Overall Survival (OS) Defined as the Number of Days From Randomization to the Date of Death (From Any Cause)

| | |
|--|---|
| End point title | Overall Survival (OS) Defined as the Number of Days From Randomization to the Date of Death (From Any Cause) ^[2] |
| End point description: Overall survival is the time from randomization until death from any cause | |
| End point type | Primary |
| End point timeframe: Throughout the study, average 21 months | |

Notes:

[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: This endpoint is not relevant to the infusion sub-study arm.

| End point values | Margetuximab Plus Chemotherapy | Trastuzumab Plus Chemotherapy | | |
|----------------------------------|--------------------------------|-------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 266 | 270 | | |
| Units: months | | | | |
| median (confidence interval 95%) | 21.6 (0.66 to 61.44) | 21.9 (0.07 to 64.53) | | |

Statistical analyses

| | |
|--|--|
| Statistical analysis title | Statistical Analysis 1 |
| Statistical analysis description: Stratified Cox Proportional Model | |
| Comparison groups | Trastuzumab Plus Chemotherapy v Margetuximab Plus Chemotherapy |
| Number of subjects included in analysis | 536 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.6204 ^[3] |
| Method | Logrank |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.95 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.774 |
| upper limit | 1.165 |

Notes:

[3] - Stratified Log-Rank Test

Primary: Number of Patients With Grade 3 or Higher Infusion Related Reactions

| | |
|---|---|
| End point title | Number of Patients With Grade 3 or Higher Infusion Related Reactions ^[4] |
| End point description: Incidence of Grade 3 or higher infusion-related reactions for patients receiving 60-minute or 30-minute infusions of margetuximab in Cycle 2 of treatment | |
| End point type | Primary |
| End point timeframe: 22 days | |

Notes:

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

Justification: This endpoint was specific to the infusion substudy arm only.

| End point values | Margetuximab Stage A1 | Margetuximab Stage A2 | Margetuximab Stage B | |
|-----------------------------|-----------------------|-----------------------|----------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 8 | 9 | 71 | |
| Units: Participants | 0 | 0 | 0 | |

Statistical analyses

Secondary: Progression-free Survival (PFS), as Assessed by Study Investigators.

| | |
|-----------------|---|
| End point title | Progression-free Survival (PFS), as Assessed by Study Investigators. ^[5] |
|-----------------|---|

| |
|------------------------|
| End point description: |
|------------------------|

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

| |
|----------------------|
| End point timeframe: |
|----------------------|

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|---|
| Tumor assessments are conducted every 6 weeks for the first 24 weeks and then every 24 weeks until progression of cancer, up to 6.5 years |
|---|

| |
|--------|
| Notes: |
|--------|

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|---|
| [5] - 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: This endpoint is not relevant to the infusion sub-study arm. |
|---|

| End point values | Margetuximab Plus Chemotherapy | Trastuzumab Plus Chemotherapy | | |
|----------------------------------|--------------------------------|-------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 160 | 177 | | |
| Units: months | | | | |
| median (confidence interval 95%) | 5.6 (5.06 to 6.67) | 4.2 (3.98 to 5.39) | | |

Statistical analyses

| | |
|----------------------------|------------------------|
| Statistical analysis title | Statistical Analysis 1 |
|----------------------------|------------------------|

| |
|-----------------------------------|
| Statistical analysis description: |
|-----------------------------------|

| |
|-----------------------------------|
| Stratified Cox Proportional Model |
|-----------------------------------|

| | |
|-------------------|--|
| Comparison groups | Margetuximab Plus Chemotherapy v Trastuzumab Plus Chemotherapy |
|-------------------|--|

| | |
|---|-----|
| Number of subjects included in analysis | 337 |
|---|-----|

| | |
|------------------------|---------------|
| Analysis specification | Pre-specified |
|------------------------|---------------|

| | |
|---------------|-------------|
| Analysis type | superiority |
|---------------|-------------|

| | |
|---------|-------------------------|
| P-value | = 0.0014 ^[6] |
|---------|-------------------------|

| | |
|--------|---------|
| Method | Logrank |
|--------|---------|

| | |
|--------------------|-------------------|
| Parameter estimate | Hazard ratio (HR) |
|--------------------|-------------------|

| | |
|----------------|-----|
| Point estimate | 0.7 |
|----------------|-----|

| |
|---------------------|
| Confidence interval |
|---------------------|

| | |
|-------|------|
| level | 95 % |
|-------|------|

| | |
|-------|---------|
| sides | 2-sided |
|-------|---------|

| | |
|-------------|-------|
| lower limit | 0.556 |
|-------------|-------|

| | |
|-------------|------|
| upper limit | 0.87 |
|-------------|------|

| |
|--------|
| Notes: |
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|--------------------------------|
| [6] - Stratified Log-Rank Test |
|--------------------------------|

Secondary: Objective Response Rate (ORR) as Determined by Independent Radiological Review

| | |
|-----------------|---|
| End point title | Objective Response Rate (ORR) as Determined by Independent Radiological Review ^[7] |
|-----------------|---|

End point description:

Objective response rate includes all patients with either a complete response (CR) or a partial response (PR) to study treatment

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

End point timeframe:

Tumor assessments are conducted every 6 weeks for the first 24 weeks and then every 24 weeks until progression of cancer, up to 6.5 years

Notes:

[7] - 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: This endpoint is not relevant to the infusion sub-study arm.

| End point values | Margetuximab Plus Chemotherapy | Trastuzumab Plus Chemotherapy | | |
|---|--------------------------------|-------------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 262 | 262 | | |
| Units: Participants | | | | |
| CR | 7 | 4 | | |
| PR | 51 | 38 | | |
| No response, PD, not evaluable or not available | 204 | 220 | | |

Statistical analyses

No statistical analyses for this end point

Secondary: Infusion Rate Sub-study All Safety

| | |
|-----------------|------------------------------------|
| End point title | Infusion Rate Sub-study All Safety |
|-----------------|------------------------------------|

End point description:

Incidence of all grades of infusion-related reactions

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

End point timeframe:

Throughout the study, average duration 6 months

| End point values | Margetuximab Stage A1 | Margetuximab Stage A2 | Margetuximab Stage B | |
|---|-----------------------|-----------------------|----------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 8 | 9 | 71 | |
| Units: Participants | | | | |
| Infusion related reaction Cycle 1 | 1 | 1 | 16 | |
| Infusion related reaction Cycle 2 or higher | 0 | 0 | 2 | |
| No infusion related reaction | 7 | 8 | 55 | |

Statistical analyses

Adverse events

Adverse events information

Timeframe for reporting adverse events:

AEs were collected from the time of first dose through 30 days after the last dose, average 6 months.
All-cause mortality was collected from the first dose until the primary completion date, average 2 years.

Adverse event reporting additional description:

AEs are based on physical exam, patient reports, and significant abnormal laboratory values. AEs were not collected in survival follow up. Only SAEs were collected in survival follow up if related to study treatment. Only patients who received study treatments were assessed for safety.

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

Dictionary used

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

| | |
|--------------------|-------|
| Dictionary version | 21.10 |
|--------------------|-------|

Reporting groups

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|-----------------------|--------------------------------|
| Reporting group title | Margetuximab Plus Chemotherapy |
|-----------------------|--------------------------------|

Reporting group description:

Margetuximab administered every 21 days with physician's choice of 1 of 4 backbone chemotherapy regimens.

| | |
|-----------------------|-------------------------------|
| Reporting group title | Trastuzumab Plus Chemotherapy |
|-----------------------|-------------------------------|

Reporting group description:

Trastuzumab administered every 21 days with physician's choice of 1 of 4 backbone chemotherapy regimens

| | |
|-----------------------|--------------------------------|
| Reporting group title | Margetuximab Infusion Substudy |
|-----------------------|--------------------------------|

Reporting group description:

Margetuximab with or without chemotherapy

| Serious adverse events | Margetuximab Plus Chemotherapy | Trastuzumab Plus Chemotherapy | Margetuximab Infusion Substudy |
|---|--------------------------------|-------------------------------|--------------------------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 47 / 264 (17.80%) | 51 / 266 (19.17%) | 17 / 88 (19.32%) |
| number of deaths (all causes) | 204 | 202 | 62 |
| number of deaths resulting from adverse events | | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Leukaemia | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Metastases to bone | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Vascular disorders | | | |

| | | | |
|--|-----------------|-----------------|----------------|
| Embolism | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Haematoma | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Subclavian vein thrombosis | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Vasculitis | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 | 2 / 264 (0.76%) | 3 / 266 (1.13%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 3 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| General physical health deterioration | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Malaise | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Asthenia | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|----------------|
| Chills | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Death | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| Infusion site extravasation | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Non-cardiac chest pain | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pain | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 0 / 266 (0.00%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Immune system disorders | | | |
| Allergic oedema | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Pleural effusion | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 4 / 266 (1.50%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 4 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Acute respiratory failure | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|----------------|
| Pneumothorax | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pulmonary embolism | | | |
| subjects affected / exposed | 2 / 264 (0.76%) | 0 / 266 (0.00%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Dyspnoea | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pneumonia aspiration | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| Pneumothorax spontaneous | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pulmonary oedema | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 0 / 266 (0.00%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Investigations | | | |
| Neutrophil count decreased | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 1 / 266 (0.38%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 1 | 1 / 1 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Blood bilirubin increased | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Ejection fraction decreased | | | |

| | | | |
|---|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (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 |
| Liver function test increased | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Injury, poisoning and procedural complications | | | |
| Infusion related reaction | | | |
| subjects affected / exposed | 3 / 264 (1.14%) | 0 / 266 (0.00%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 3 / 3 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Ankle fracture | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Femoral neck fracture | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Procedural haemorrhage | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Subdural haematoma | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 | | | |
| Acute myocardial infarction | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |

| | | | |
|---|-----------------|-----------------|----------------|
| Atrial fibrillation | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (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 |
| Cardiac failure | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Ventricular tachycardia | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 | | | |
| Encephalopathy | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Haemorrhage intracranial | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Headache | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Loss of consciousness | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Seizure | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Blood and lymphatic system disorders | | | |

| | | | |
|---|-----------------|------------------|----------------|
| Febrile neutropenia | | | |
| subjects affected / exposed | 4 / 264 (1.52%) | 10 / 266 (3.76%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 4 | 2 / 10 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Anaemia | | | |
| subjects affected / exposed | 2 / 264 (0.76%) | 2 / 266 (0.75%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 2 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Neutropenia | | | |
| subjects affected / exposed | 4 / 264 (1.52%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 1 / 4 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastrointestinal disorders | | | |
| Abdominal pain | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 1 / 266 (0.38%) | 2 / 88 (2.27%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | 0 / 2 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Constipation | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Diarrhoea | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Vomiting | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Colitis | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Dysphagia | | | |

| | | | |
|---|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 264 (0.00%) | 0 / 266 (0.00%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastrointestinal toxicity | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Impaired gastric emptying | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Intestinal obstruction | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Irritable bowel syndrome | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Large intestine perforation | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 0 / 266 (0.00%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Nausea | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 0 / 266 (0.00%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Rectal haemorrhage | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Small intestinal obstruction | | | |

| | | | |
|---|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 264 (0.00%) | 0 / 266 (0.00%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Renal and urinary disorders | | | |
| Acute kidney injury | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| Hydronephrosis | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 0 / 266 (0.00%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Musculoskeletal and connective tissue disorders | | | |
| Back pain | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Pathological fracture | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 0 / 266 (0.00%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Rotator cuff syndrome | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Spinal pain | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Spondylolisthesis | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|--|-----------------------------------|-----------------------------------|----------------------------------|
| Infections and infestations Pneumonia subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 4 / 264 (1.52%) 0 / 4 0 / 2 | 8 / 266 (3.01%) 1 / 8 0 / 1 | 1 / 88 (1.14%) 0 / 1 0 / 0 |
| Cellulitis subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 1 / 264 (0.38%) 0 / 1 0 / 0 | 3 / 266 (1.13%) 0 / 3 0 / 0 | 0 / 88 (0.00%) 0 / 0 0 / 0 |
| Urinary tract infection subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 2 / 264 (0.76%) 0 / 2 0 / 0 | 2 / 266 (0.75%) 0 / 2 0 / 0 | 0 / 88 (0.00%) 0 / 0 0 / 0 |
| Influenza subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 1 / 264 (0.38%) 0 / 1 0 / 0 | 2 / 266 (0.75%) 0 / 2 0 / 0 | 0 / 88 (0.00%) 0 / 0 0 / 0 |
| Breast cellulitis subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 0 / 264 (0.00%) 0 / 0 0 / 0 | 2 / 266 (0.75%) 0 / 2 0 / 0 | 0 / 88 (0.00%) 0 / 0 0 / 0 |
| Bronchitis subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 0 / 264 (0.00%) 0 / 0 0 / 0 | 1 / 266 (0.38%) 0 / 1 0 / 0 | 1 / 88 (1.14%) 0 / 1 0 / 0 |
| Septic shock subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 1 / 264 (0.38%) 0 / 1 0 / 0 | 0 / 266 (0.00%) 0 / 0 0 / 0 | 1 / 88 (1.14%) 0 / 0 0 / 0 |
| Acinetobacter infection subjects affected / exposed occurrences causally related to treatment / all deaths causally related to treatment / all | 0 / 264 (0.00%) 0 / 0 0 / 0 | 1 / 266 (0.38%) 1 / 1 0 / 0 | 0 / 88 (0.00%) 0 / 0 0 / 0 |
| Breast abscess | | | |

| | | | |
|---|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Catheter site infection | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 0 / 266 (0.00%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Clostridium difficile infection | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Coronavirus infection | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| Device related infection | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Device related sepsis | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastroenteritis | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Infected bite | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Infection | | | |

| | | | |
|---|-----------------|-----------------|----------------|
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| lung infection | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Mastitis | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Mastoiditis | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Periorbital cellulitis | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Pseudomonal sepsis | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 0 / 266 (0.00%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pyelonephritis | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 0 / 266 (0.00%) | 1 / 88 (1.14%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Skin infection | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Soft tissue infection | | | |

| | | | |
|---|-----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Streptococcal bacteraemia | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastroenteritis viral | | | |
| subjects affected / exposed | 0 / 264 (0.00%) | 1 / 266 (0.38%) | 0 / 88 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Metabolism and nutrition disorders | | | |
| Hyperglycaemia | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Hypoglycaemia | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Hypokalaemia | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |
| Hypovolaemia | | | |
| subjects affected / exposed | 1 / 264 (0.38%) | 0 / 266 (0.00%) | 0 / 88 (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 |

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

| Non-serious adverse events | Margetuximab Plus Chemotherapy | Trastuzumab Plus Chemotherapy | Margetuximab Infusion Substudy |
|---|---|--|---|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 213 / 264 (80.68%) | 210 / 266 (78.95%) | 68 / 88 (77.27%) |
| Investigations | | | |
| Neutrophil count decreased | | | |
| subjects affected / exposed | 32 / 264 (12.12%) | 38 / 266 (14.29%) | 12 / 88 (13.64%) |
| occurrences (all) | 99 | 90 | 26 |
| Aspartate aminotransferase increased | | | |
| subjects affected / exposed | 22 / 264 (8.33%) | 34 / 266 (12.78%) | 12 / 88 (13.64%) |
| occurrences (all) | 41 | 57 | 30 |
| Alanine aminotransferase increased | | | |
| subjects affected / exposed | 26 / 264 (9.85%) | 26 / 266 (9.77%) | 11 / 88 (12.50%) |
| occurrences (all) | 49 | 61 | 24 |
| White blood cell count decreased | | | |
| subjects affected / exposed | 20 / 264 (7.58%) | 26 / 266 (9.77%) | 8 / 88 (9.09%) |
| occurrences (all) | 73 | 60 | 15 |
| Weight decreased | | | |
| subjects affected / exposed | 16 / 264 (6.06%) | 15 / 266 (5.64%) | 9 / 88 (10.23%) |
| occurrences (all) | 17 | 19 | 11 |
| Injury, poisoning and procedural complications | | | |
| Infusion related reaction | | | |
| subjects affected / exposed | 33 / 264 (12.50%) | 9 / 266 (3.38%) | 18 / 88 (20.45%) |
| occurrences (all) | 36 | 15 | 52 |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed | 50 / 264 (18.94%) | 43 / 266 (16.17%) | 11 / 88 (12.50%) |
| occurrences (all) | 82 | 89 | 14 |
| Neuropathy peripheral | | | |
| subjects affected / exposed | 26 / 264 (9.85%) | 28 / 266 (10.53%) | 7 / 88 (7.95%) |
| occurrences (all) | 36 | 38 | 8 |
| Dizziness | | | |
| subjects affected / exposed | 26 / 264 (9.85%) | 17 / 266 (6.39%) | 5 / 88 (5.68%) |
| occurrences (all) | 31 | 20 | 6 |

| | | | |
|---|---------------------------|--------------------------|------------------------|
| Dysgeusia subjects affected / exposed occurrences (all) | 16 / 264 (6.06%) 17 | 15 / 266 (5.64%) 17 | 7 / 88 (7.95%) 7 |
| Peripheral sensory neuropathy subjects affected / exposed occurrences (all) | 17 / 264 (6.44%) 28 | 13 / 266 (4.89%) 23 | 3 / 88 (3.41%) 4 |
| Blood and lymphatic system disorders | | | |
| Neutropenia subjects affected / exposed occurrences (all) | 72 / 264 (27.27%) 257 | 54 / 266 (20.30%) 154 | 17 / 88 (19.32%) 45 |
| Anaemia subjects affected / exposed occurrences (all) | 48 / 264 (18.18%) 100 | 61 / 266 (22.93%) 126 | 18 / 88 (20.45%) 42 |
| Thrombocytopenia subjects affected / exposed occurrences (all) | 22 / 264 (8.33%) 35 | 13 / 266 (4.89%) 24 | 3 / 88 (3.41%) 15 |
| General disorders and administration site conditions | | | |
| Fatigue subjects affected / exposed occurrences (all) | 112 / 264 (42.42%) 187 | 95 / 266 (35.71%) 144 | 24 / 88 (27.27%) 33 |
| Pyrexia subjects affected / exposed occurrences (all) | 50 / 264 (18.94%) 73 | 34 / 266 (12.78%) 62 | 18 / 88 (20.45%) 29 |
| Asthenia subjects affected / exposed occurrences (all) | 49 / 264 (18.56%) 102 | 32 / 266 (12.03%) 47 | 7 / 88 (7.95%) 8 |
| Oedema peripheral subjects affected / exposed occurrences (all) | 21 / 264 (7.95%) 34 | 26 / 266 (9.77%) 32 | 5 / 88 (5.68%) 6 |
| Mucosal inflammation subjects affected / exposed occurrences (all) | 26 / 264 (9.85%) 29 | 8 / 266 (3.01%) 9 | 3 / 88 (3.41%) 6 |
| Influenza like illness subjects affected / exposed occurrences (all) | 18 / 264 (6.82%) 22 | 11 / 266 (4.14%) 23 | 5 / 88 (5.68%) 7 |
| Gastrointestinal disorders | | | |

| | | | |
|---|-------------------|-------------------|------------------|
| Nausea | | | |
| subjects affected / exposed | 88 / 264 (33.33%) | 87 / 266 (32.71%) | 33 / 88 (37.50%) |
| occurrences (all) | 133 | 140 | 44 |
| Diarrhoea | | | |
| subjects affected / exposed | 68 / 264 (25.76%) | 67 / 266 (25.19%) | 14 / 88 (15.91%) |
| occurrences (all) | 119 | 107 | 19 |
| Constipation | | | |
| subjects affected / exposed | 50 / 264 (18.94%) | 44 / 266 (16.54%) | 20 / 88 (22.73%) |
| occurrences (all) | 73 | 51 | 27 |
| Vomiting | | | |
| subjects affected / exposed | 55 / 264 (20.83%) | 38 / 266 (14.29%) | 19 / 88 (21.59%) |
| occurrences (all) | 79 | 53 | 24 |
| Abdominal pain | | | |
| subjects affected / exposed | 25 / 264 (9.47%) | 36 / 266 (13.53%) | 9 / 88 (10.23%) |
| occurrences (all) | 33 | 53 | 14 |
| Stomatitis | | | |
| subjects affected / exposed | 28 / 264 (10.61%) | 21 / 266 (7.89%) | 8 / 88 (9.09%) |
| occurrences (all) | 34 | 33 | 10 |
| Abdominal pain upper | | | |
| subjects affected / exposed | 22 / 264 (8.33%) | 21 / 266 (7.89%) | 1 / 88 (1.14%) |
| occurrences (all) | 27 | 29 | 1 |
| Dyspepsia | | | |
| subjects affected / exposed | 16 / 264 (6.06%) | 20 / 266 (7.52%) | 7 / 88 (7.95%) |
| occurrences (all) | 18 | 21 | 9 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough | | | |
| subjects affected / exposed | 42 / 264 (15.91%) | 33 / 266 (12.41%) | 6 / 88 (6.82%) |
| occurrences (all) | 54 | 50 | 6 |
| Dyspnoea | | | |
| subjects affected / exposed | 34 / 264 (12.88%) | 29 / 266 (10.90%) | 13 / 88 (14.77%) |
| occurrences (all) | 42 | 43 | 16 |
| Epistaxis | | | |
| subjects affected / exposed | 18 / 264 (6.82%) | 19 / 266 (7.14%) | 2 / 88 (2.27%) |
| occurrences (all) | 23 | 22 | 2 |
| Skin and subcutaneous tissue disorders | | | |

| | | | |
|---|-------------------|-------------------|------------------|
| Alopecia | | | |
| subjects affected / exposed | 47 / 264 (17.80%) | 39 / 266 (14.66%) | 13 / 88 (14.77%) |
| occurrences (all) | 51 | 46 | 13 |
| Palmer-plantar erthrodysesthesia syndrome | | | |
| subjects affected / exposed | 33 / 264 (12.50%) | 43 / 266 (16.17%) | 1 / 88 (1.14%) |
| occurrences (all) | 69 | 102 | 3 |
| Rash | | | |
| subjects affected / exposed | 18 / 264 (6.82%) | 15 / 266 (5.64%) | 6 / 88 (6.82%) |
| occurrences (all) | 21 | 25 | 6 |
| Pruritus | | | |
| subjects affected / exposed | 13 / 264 (4.92%) | 13 / 266 (4.89%) | 7 / 88 (7.95%) |
| occurrences (all) | 15 | 13 | 7 |
| Psychiatric disorders | | | |
| Insomnia | | | |
| subjects affected / exposed | 15 / 264 (5.68%) | 15 / 266 (5.64%) | 6 / 88 (6.82%) |
| occurrences (all) | 16 | 16 | 7 |
| Musculoskeletal and connective tissue disorders | | | |
| Pain in extremity | | | |
| subjects affected / exposed | 32 / 264 (12.12%) | 25 / 266 (9.40%) | 7 / 88 (7.95%) |
| occurrences (all) | 42 | 27 | 8 |
| Arthralgia | | | |
| subjects affected / exposed | 28 / 264 (10.61%) | 23 / 266 (8.65%) | 10 / 88 (11.36%) |
| occurrences (all) | 35 | 30 | 17 |
| Back pain | | | |
| subjects affected / exposed | 23 / 264 (8.71%) | 27 / 266 (10.15%) | 7 / 88 (7.95%) |
| occurrences (all) | 24 | 36 | 11 |
| Myalgia | | | |
| subjects affected / exposed | 18 / 264 (6.82%) | 16 / 266 (6.02%) | 4 / 88 (4.55%) |
| occurrences (all) | 23 | 20 | 5 |
| Muscle spasms | | | |
| subjects affected / exposed | 17 / 264 (6.44%) | 11 / 266 (4.14%) | 7 / 88 (7.95%) |
| occurrences (all) | 18 | 11 | 9 |
| Infections and infestations | | | |
| Urinary tract infection | | | |
| subjects affected / exposed | 25 / 264 (9.47%) | 26 / 266 (9.77%) | 5 / 88 (5.68%) |
| occurrences (all) | 39 | 32 | 8 |

| | | | |
|---|-------------------------|-------------------------|-----------------------|
| Upper respiratory tract infection subjects affected / exposed occurrences (all) | 21 / 264 (7.95%) 34 | 23 / 266 (8.65%) 24 | 7 / 88 (7.95%) 7 |
| Nasopharyngitis subjects affected / exposed occurrences (all) | 21 / 264 (7.95%) 27 | 19 / 266 (7.14%) 27 | 1 / 88 (1.14%) 1 |
| Metabolism and nutrition disorders | | | |
| Decreased appetite subjects affected / exposed occurrences (all) | 38 / 264 (14.39%) 50 | 38 / 266 (14.29%) 45 | 9 / 88 (10.23%) 10 |
| Hypokalaemia subjects affected / exposed occurrences (all) | 16 / 264 (6.06%) 28 | 21 / 266 (7.89%) 36 | 8 / 88 (9.09%) 19 |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|------------------|--|
| 21 January 2016 | This global amendment increased the number of allowable prior lines of therapy from 2 to 3; modified efficacy evaluation timing; and clarified eligibility. |
| 09 February 2017 | In this global amendment the requirement for 3 prior anti-HER2 targeted therapies (trastuzumab, pertuzumab, and T-DM1) was liberalized. After this amendment, subjects were required to have at least 2 prior lines of anti-HER2 targeted therapies in the MBC setting before study entry, 1 of which must have been pertuzumab. |
| 26 January 2018 | An additional non-randomized cohort was added to demonstrate tolerability of lowering infusion duration from 120 minutes in Cycle 1 to 30 minutes in Cycle 2 and thereafter. To ensure that eligibility for randomized versus infusion sub-study populations were non-overlapping, eligibility for this cohort included at least 4 prior lines of therapy for metastatic disease. Randomized subjects received 1 to 3 lines of prior therapy, whereas infusion sub-study subjects received at least 4 prior lines. |
| 08 June 2020 | This global amendment limited study procedures that may increase risk of iatrogenic exposure to severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) while preserving the ability to collect necessary safety and efficacy data. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported

Online references

<http://www.ncbi.nlm.nih.gov/pubmed/36332179>

<http://www.ncbi.nlm.nih.gov/pubmed/33480963>