



## Clinical trial results:

### A Randomized Phase 2 Study of Pemetrexed in Combination with Cisplatin or Carboplatin as Adjuvant Chemotherapy in Patients with Completely Resected Stage Ib or II Non-Small Cell Lung Cancer Summary

|                          |                |
|--------------------------|----------------|
| EudraCT number           | 2005-002911-26 |
| Trial protocol           | DE ES          |
| Global end of trial date | 30 July 2013   |

#### Results information

|                                |                |
|--------------------------------|----------------|
| Result version number          | v1 (current)   |
| This version publication date  | 04 July 2016   |
| First version publication date | 06 August 2015 |

#### Trial information

##### Trial identification

|                       |             |
|-----------------------|-------------|
| Sponsor protocol code | H3E-SB-S089 |
|-----------------------|-------------|

##### Additional study identifiers

|                                    |   |
|------------------------------------|---|
| ISRCTN number                      | -   |
| ClinicalTrials.gov id (NCT number) | NCT00269152                               |
| WHO universal trial number (UTN)   | -   |
| Other trial identifiers            | Trial ID: 10105, Trial Alias: H3E-SB-S089 |

Notes:

#### Sponsors

|                              |   |
|------------------------------|---|
| Sponsor organisation name    | Eli Lilly and Company   |
| Sponsor organisation address | Lilly Corporate Center , Indianapolis, IN, United States, 46285             |
| Public contact               | Available Mon - Fri 9 AM - 5 PM EST, Eli Lilly and Company, 1 877-CTLilly,  |
| Scientific contact           | Available Mon - Fri 9 AM - 5 PM EST, Eli Lilly and Company, 1 800-285-4559, |

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                       | 30 July 2013 |
| Is this the analysis of the primary completion data? | No           |
| Global end of trial reached?                         | Yes          |
| Global end of trial date                             | 30 July 2013 |
| Was the trial ended prematurely?                     | No           |

Notes:

## General information about the trial

Main objective of the trial:

This study is a multicenter, open-label, two-arm, randomized, parallel Phase 2 feasibility study of pemetrexed in combination with either cisplatin (Arm A) or carboplatin (Arm B) as adjuvant combination-chemotherapy in participants with completely resected, stage Ib or IIa/IIb non-small cell lung cancer (NSCLC).

A two-stage design will be employed independently for both treatment arms, with the possibility of stopping each treatment early for lack of feasibility.

Protection of trial subjects:

This study was conducted in accordance with International Code of Harmonization (ICH) Good Clinical Practice, and the principles of the Declaration of Helsinki, in addition to following the laws and regulations of the country or countries in which a study is conducted.

Background therapy: -

Evidence for comparator: -

|   |                     |
|---|---------------------|
| Actual start date of recruitment                          | 21 December 2005    |
| Long term follow-up planned                               | Yes                 |
| Long term follow-up rationale                             | Scientific research |
| Long term follow-up duration                              | 6 Years             |
| Independent data monitoring committee (IDMC) involvement? | No                  |

Notes:

## Population of trial subjects

### Subjects enrolled per country

|                                      |             |
|--------------------------------------|-------------|
| Country: Number of subjects enrolled | Germany: 87 |
| Country: Number of subjects enrolled | Spain: 15   |
| Country: Number of subjects enrolled | France: 20  |
| Worldwide total number of subjects   | 122         |
| EEA total number of subjects         | 122         |

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          | 0 |

|                           |    |
|---------------------------|----|
| months)                   |    |
| Children (2-11 years)     | 0  |
| Adolescents (12-17 years) | 0  |
| Adults (18-64 years)      | 82 |
| From 65 to 84 years       | 40 |
| 85 years and over         | 0  |

## Subject disposition

### Recruitment

Recruitment details: -

### Pre-assignment

Screening details:

Not Applicable

### Period 1

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

### Arms

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

|                  |                        |
|------------------|------------------------|
| <b>Arm title</b> | Pemetrexed + Cisplatin |
|------------------|------------------------|

Arm description:

Pemetrexed: 500 milligrams per square meter (mg/m<sup>2</sup>), intravenous (IV), every 21 days x 4 cycles

Cisplatin: 75 mg/m<sup>2</sup>, intravenous (IV), every 21 days x 4 cycles

|  |                  |
|--|------------------|
| Arm type                               | Experimental     |
| Investigational medicinal product name | Pemetrexed       |
| Investigational medicinal product code |                  |
| Other name                             | LY213514, Alimta |
| Pharmaceutical forms                   | Infusion         |
| Routes of administration               | Intravenous use  |

Dosage and administration details:

Pemetrexed: 500 milligrams per square meter (mg/m<sup>2</sup>), intravenous (IV), every 21 days x 4 cycles

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

Dosage and administration details:

Cisplatin: 75 mg/m<sup>2</sup>, intravenous (IV), every 21 days x 4 cycles

|                  |                          |
|------------------|--------------------------|
| <b>Arm title</b> | Pemetrexed + Carboplatin |
|------------------|--------------------------|

Arm description:

Pemetrexed: 500 mg/m<sup>2</sup>, intravenous (IV), every 21 days x 4 cycles

Carboplatin: area under the curve (AUC) 5 milligrams per milliliter\*minute (mg/ml\*min), intravenous (IV), every 21 days x 4 cycles

|  |                  |
|--|------------------|
| Arm type                               | Experimental     |
| Investigational medicinal product name | Pemetrexed       |
| Investigational medicinal product code |                  |
| Other name                             | LY213514, Alimta |
| Pharmaceutical forms                   | Infusion         |
| Routes of administration               | Intravenous use  |

Dosage and administration details:

Pemetrexed: 500 mg/m<sup>2</sup>, intravenous (IV), every 21 days x 4 cycles

|  |             |
|--|-------------|
| Investigational medicinal product name | Carboplatin |
| Investigational medicinal product code |             |
| Other name                             |             |

|                          |                 |
|--------------------------|-----------------|
| Pharmaceutical forms     | Infusion        |
| Routes of administration | Intravenous use |

Dosage and administration details:

Carboplatin: area under the curve (AUC) 5 milligrams per milliliter\*minute (mg/ml\*min), intravenous (IV), every 21 days x 4 cycles

| <b>Number of subjects in period 1</b> | Pemetrexed +<br>Cisplatin | Pemetrexed +<br>Carboplatin |
|---------------------------------------|---------------------------|-----------------------------|
| Started                               | 63                        | 59                          |
| Completed                             | 45                        | 49                          |
| Not completed                         | 18                        | 10                          |
| Physician decision                    | 2                         | 3                           |
| Adverse event, non-fatal              | 9                         | 3                           |
| Protocol violation                    | -                         | 1                           |
| Withdrawal by subject                 | 7                         | 3                           |

## Baseline characteristics

### Reporting groups

|  |                          |
|--|--------------------------|
| Reporting group title  | Pemetrexed + Cisplatin   |
| Reporting group description:   |                          |
| Pemetrexed: 500 milligrams per square meter (mg/m <sup>2</sup> ), intravenous (IV), every 21 days x 4 cycles                       |                          |
| Cisplatin: 75 mg/m <sup>2</sup> , intravenous (IV), every 21 days x 4 cycles   |                          |
| Reporting group title  | Pemetrexed + Carboplatin |
| Reporting group description:   |                          |
| Pemetrexed: 500 mg/m <sup>2</sup> , intravenous (IV), every 21 days x 4 cycles   |                          |
| Carboplatin: area under the curve (AUC) 5 milligrams per milliliter*minute (mg/ml*min), intravenous (IV), every 21 days x 4 cycles |                          |

| Reporting group values   | Pemetrexed + Cisplatin | Pemetrexed + Carboplatin | Total |
|--|------------------------|--------------------------|-------|
| Number of subjects   | 63                     | 59                       | 122   |
| Age categorical  |                        |                          |       |
| Units: Subjects  |                        |                          |       |
| Age Continuous   |                        |                          |       |
| Units: years   |                        |                          |       |
| arithmetic mean  | 60.6                   | 58.9                     |       |
| standard deviation   | ± 7.7                  | ± 7.2                    | -     |
| Gender, Male/Female  |                        |                          |       |
| Units: participants  |                        |                          |       |
| Female   | 14                     | 18                       | 32    |
| Male   | 49                     | 41                       | 90    |
| Race, Customized   |                        |                          |       |
| Units: Subjects  |                        |                          |       |
| Caucasian  | 62                     | 58                       | 120   |
| African  | 1                      | 1                        | 2     |
| Region of Enrollment   |                        |                          |       |
| Units: Subjects  |                        |                          |       |
| France   | 12                     | 8                        | 20    |
| Spain  | 7                      | 8                        | 15    |
| Germany  | 44                     | 43                       | 87    |
| Curative Surgery Used  |                        |                          |       |
| Units: Subjects  |                        |                          |       |
| Pneumonectomy  | 9                      | 9                        | 18    |
| Lobectomy  | 46                     | 46                       | 92    |
| Bi-lobectomy   | 8                      | 4                        | 12    |
| Smoking History  |                        |                          |       |
| Units: Subjects  |                        |                          |       |
| Yes  | 56                     | 56                       | 112   |
| No   | 7                      | 3                        | 10    |
| Stage of Disease Prior to Tumor Resection  |                        |                          |       |
| Classification based on the American Joint Committee on Cancer Staging Criteria for Lung Cancer. |                        |                          |       |
| Units: Subjects  |                        |                          |       |
| Stage Ia   | 0                      | 1                        | 1     |

|   |    |    |    |
|---|----|----|----|
| Stage Ib  | 27 | 26 | 53 |
| Stage IIa   | 6  | 5  | 11 |
| Stage IIb   | 30 | 25 | 55 |
| Stage IIIa  | 0  | 1  | 1  |
| Unknown: could have been either<br>Stage IIIb or IV | 0  | 1  | 1  |
| Tumor Type at Initial Pathological<br>Diagnosis     |    |    |    |
| Units: Subjects                                     |    |    |    |
| Adenocarcinoma of the Lung                          | 27 | 23 | 50 |
| Squamous Carcinoma of the Lung                      | 24 | 20 | 44 |
| Non-Small Cell Lung Cancer                          | 5  | 4  | 9  |
| Mixed Cell (Squamous/Adeno)<br>Carcinoma of Lung    | 0  | 5  | 5  |
| Large Cell Carcinoma of Lung                        | 5  | 7  | 12 |
| Bronchoalveolar Carcinoma                           | 2  | 0  | 2  |

## End points

### End points reporting groups

|  |                               |
|--|-------------------------------|
| Reporting group title  | Pemetrexed + Cisplatin        |
| Reporting group description:   |                               |
| Pemetrexed: 500 milligrams per square meter (mg/m <sup>2</sup> ), intravenous (IV), every 21 days x 4 cycles   |                               |
| Cisplatin: 75 mg/m <sup>2</sup> , intravenous (IV), every 21 days x 4 cycles   |                               |
| Reporting group title  | Pemetrexed + Carboplatin      |
| Reporting group description:   |                               |
| Pemetrexed: 500 mg/m <sup>2</sup> , intravenous (IV), every 21 days x 4 cycles   |                               |
| Carboplatin: area under the curve (AUC) 5 milligrams per milliliter*minute (mg/ml*min), intravenous (IV), every 21 days x 4 cycles   |                               |
| Subject analysis set title   | Pemetrexed+Cisplatin (Safety) |
| Subject analysis set type  | Safety analysis               |
| Subject analysis set description:  |                               |
| 1 patient randomized to pemetrexed+carboplatin was accidentally treated with pemetrexed+cisplatin. This patient was analyzed for efficacy as randomized and for safety as treated. |                               |

### Primary: The Feasibility of Adjuvant Chemotherapy

|  |  |
|--|--|
| End point title  | The Feasibility of Adjuvant Chemotherapy <sup>[1][2]</sup> |
| End point description:   |  |
| The purpose of the study was to determine the feasibility rate of the treatment regimen. The treatment was considered feasible if the participant was able to complete 4 cycles of chemotherapy as defined by the protocol, was alive, and showed no Grade 3 toxicities at the follow-up visit 30 days after the last infusion of study drugs. |  |
| End point type   | Primary  |
| End point timeframe:   |  |
| every 21-day cycle for 4 cycles up to 30 days after last infusion  |  |

#### 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: Unable to provide statistical analysis for single reporting group with no comparison group due to system limitations in EudraCT database.

[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: Unable to provide statistical analysis for single reporting group with no comparison group due to system limitations in EudraCT database.

| End point values                                | Pemetrexed + Carboplatin | Pemetrexed+Cisplatin (Safety) |  |  |
|---|--------------------------|-------------------------------|--|--|
| Subject group type                              | Reporting group          | Subject analysis set          |  |  |
| Number of subjects analysed                     | 54                       | 64                            |  |  |
| Units: participants                             |                          |                               |  |  |
| number (not applicable)                         |                          |                               |  |  |
| Participants "feasible"                         | 27                       | 38                            |  |  |
| Non-feasible = Early Discontinuation            | 6                        | 18                            |  |  |
| Non-feasible = Lost to Follow-up                | 2                        | 1                             |  |  |
| Non-feasible = Remaining Grade 3/4 Toxicity     | 3                        | 4                             |  |  |
| Non-feasible = Underdosage (<95% intended dose) | 19                       | 5                             |  |  |



## Statistical analyses

No statistical analyses for this end point

### Secondary: Grade III/IV Adverse Events

|                 |  |
|-----------------|--|
| End point title | Grade III/IV Adverse Events <sup>[3]</sup> |
|-----------------|--|

End point description:

Number of participants experiencing Grade III/IV hematologic and non-hematologic adverse events possibly related to study drug or protocol procedures in this study.

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

End point timeframe:

every 21-day cycle for 4 cycles

Notes:

[3] - 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: Unable to provide statistical analysis for single reporting group with no comparison group due to system limitations in EudraCT database.

| End point values                    | Pemetrexed + Carboplatin | Pemetrexed+Ci sptatin (Safety) |  |  |
|-------------------------------------|--------------------------|--------------------------------|--|--|
| Subject group type                  | Reporting group          | Subject analysis set           |  |  |
| Number of subjects analysed         | 54                       | 64                             |  |  |
| Units: participants                 |                          |                                |  |  |
| number (not applicable)             |                          |                                |  |  |
| Neutropenia                         | 6                        | 9                              |  |  |
| Anaemia                             | 3                        | 0                              |  |  |
| Thrombocytopenia                    | 3                        | 0                              |  |  |
| Febrile neutropenia                 | 2                        | 0                              |  |  |
| Leukopenia                          | 1                        | 0                              |  |  |
| Lymphopenia                         | 0                        | 1                              |  |  |
| Neutrophil count decreased          | 6                        | 1                              |  |  |
| Haemoglobin count decreased         | 2                        | 0                              |  |  |
| Platelet count decreased            | 1                        | 1                              |  |  |
| White blood cell count decreased    | 2                        | 0                              |  |  |
| Asthenia                            | 2                        | 4                              |  |  |
| Nausea                              | 0                        | 3                              |  |  |
| Vomiting                            | 0                        | 3                              |  |  |
| Fatigue                             | 2                        | 0                              |  |  |
| Catheter related infection          | 0                        | 1                              |  |  |
| Gamma-glutamyltransferase increased | 0                        | 1                              |  |  |
| Anorexia                            | 0                        | 1                              |  |  |
| Hyperglycaemia                      | 0                        | 1                              |  |  |
| Hyperkalaemia                       | 0                        | 1                              |  |  |
| Psychotic disorder                  | 0                        | 1                              |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Overall Survival at 3 Years

|                 |                             |
|-----------------|-----------------------------|
| End point title | Overall Survival at 3 Years |
|-----------------|-----------------------------|

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**End point description:**

For each treatment arm, the Kaplan-Meier technique was used to estimate the 3 year survival rate. Results are presented as probability (%) of survival at 3 years. Overall survival is the duration from enrollment to death. For participants not known to have died, overall survival was censored at the last known alive date.

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

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**End point timeframe:**

baseline to date of death from any cause, assessed at 3 years

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| End point values                           | Pemetrexed + Cisplatin | Pemetrexed + Carboplatin |  |  |
|--|------------------------|--------------------------|--|--|
| Subject group type                         | Reporting group        | Reporting group          |  |  |
| Number of subjects analysed                | 63                     | 59                       |  |  |
| Units: percent probability of survival (%) |                        |                          |  |  |
| number (confidence interval 95%)           | 82 (72.4 to 91.6)      | 83.2 (73.2 to 93.2)      |  |  |

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**Statistical analyses**

No statistical analyses for this end point

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**Secondary: 3 Year Disease-Free Survival: Probability of Disease-Free Survival at 3 Years**

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|                 |   |
|-----------------|---|
| End point title | 3 Year Disease-Free Survival: Probability of Disease-Free Survival at 3 Years |
|-----------------|---|

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**End point description:**

For each treatment arm, the Kaplan-Meier technique was used to estimate the 3 year disease-free rate. Disease-free survival is defined as the time from enrollment to the first observation of disease progression, or death due to any cause. For participants not known to have died and to have had recurrent disease, disease-free survival was censored at the date of the last participant contact with No Recurrence status. Results are presented as probability (%) of disease-free survival at 3 years.

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

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**End point timeframe:**

length of time disease free, assessed at 3 years

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| End point values                                | Pemetrexed + Cisplatin | Pemetrexed + Carboplatin |  |  |
|---|------------------------|--------------------------|--|--|
| Subject group type                              | Reporting group        | Reporting group          |  |  |
| Number of subjects analysed                     | 63                     | 59                       |  |  |
| Units: probability of disease-free survival (%) |                        |                          |  |  |
| number (confidence interval 95%)                | 61.2 (48.3 to 74)      | 67.3 (54.5 to 80.1)      |  |  |

## Statistical analyses

No statistical analyses for this end point

### Secondary: Overall Survival at 6 Years

|                 |                             |
|-----------------|-----------------------------|
| End point title | Overall Survival at 6 Years |
|-----------------|-----------------------------|

End point description:

For each treatment arm, the Kaplan-Meier technique was used to estimate the 6 year survival rate. Results are presented as probability (%) of survival at 6 years. Overall survival is the duration from enrollment to death. For participants not known to have died, overall survival was censored at the last known alive date.

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

End point timeframe:

Baseline to date of death from any cause assessed at 6 years

| End point values                           | Pemetrexed +<br>Cisplatin | Pemetrexed +<br>Carboplatin |  |  |
|--|---------------------------|-----------------------------|--|--|
| Subject group type                         | Reporting group           | Reporting group             |  |  |
| Number of subjects analysed                | 63                        | 59                          |  |  |
| Units: percent probability of survival (%) |                           |                             |  |  |
| number (confidence interval 95%)           | 72.6 (59.3 to 85.9)       | 83.2 (73.2 to 93.2)         |  |  |

## Statistical analyses

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Entire Study

Adverse event reporting additional description:

H3E-SB-S089

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

### Dictionary used

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

|                    |     |
|--------------------|-----|
| Dictionary version | 8.1 |
|--------------------|-----|

### Reporting groups

|                       |                            |
|-----------------------|----------------------------|
| Reporting group title | Pemetrexed and Carboplatin |
|-----------------------|----------------------------|

Reporting group description: -

|                       |                          |
|-----------------------|--------------------------|
| Reporting group title | Pemetrexed and Cisplatin |
|-----------------------|--------------------------|

Reporting group description: -

| Serious adverse events  | Pemetrexed and Carboplatin | Pemetrexed and Cisplatin |  |
|---|----------------------------|--------------------------|--|
| Total subjects affected by serious adverse events                   |                            |                          |  |
| subjects affected / exposed   | 5 / 54 (9.26%)             | 19 / 64 (29.69%)         |  |
| number of deaths (all causes)                                       | 0                          | 0                        |  |
| number of deaths resulting from adverse events                      | 0                          | 0                        |  |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                            |                          |  |
| cancer pain   |                            |                          |  |
| alternative dictionary used: MedDRA 8.1                             |                            |                          |  |
| subjects affected / exposed   | 0 / 54 (0.00%)             | 1 / 64 (1.56%)           |  |
| occurrences causally related to treatment / all                     | 0 / 0                      | 0 / 1                    |  |
| deaths causally related to treatment / all                          | 0 / 0                      | 0 / 0                    |  |
| Vascular disorders  |                            |                          |  |
| aortic aneurysm   |                            |                          |  |
| alternative dictionary used: MedDRA 8.1                             |                            |                          |  |
| subjects affected / exposed   | 1 / 54 (1.85%)             | 0 / 64 (0.00%)           |  |
| occurrences causally related to treatment / all                     | 0 / 1                      | 0 / 0                    |  |
| deaths causally related to treatment / all                          | 0 / 0                      | 0 / 0                    |  |
| peripheral ischaemia  |                            |                          |  |
| alternative dictionary used: MedDRA 8.1                             |                            |                          |  |

|  |                |                |  |
|--|----------------|----------------|--|
| subjects affected / exposed                          | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all      | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| Cardiac disorders                                    |                |                |  |
| atrial flutter                                       |                |                |  |
| alternative dictionary used: MedDRA 8.1              |                |                |  |
| subjects affected / exposed                          | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all      | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| acute myocardial infarction                          |                |                |  |
| alternative dictionary used: MedDRA 8.1              |                |                |  |
| subjects affected / exposed                          | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all      | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| tachyarrhythmia                                      |                |                |  |
| alternative dictionary used: MedDRA 8.1              |                |                |  |
| subjects affected / exposed                          | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all      | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| Nervous system disorders                             |                |                |  |
| cerebrovascular accident                             |                |                |  |
| alternative dictionary used: MedDRA 8.1              |                |                |  |
| subjects affected / exposed                          | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all      | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| General disorders and administration site conditions |                |                |  |
| chest pain   |                |                |  |
| alternative dictionary used: MedDRA 8.1              |                |                |  |
| subjects affected / exposed                          | 0 / 54 (0.00%) | 2 / 64 (3.13%) |  |
| occurrences causally related to treatment / all      | 0 / 0          | 0 / 2          |  |
| deaths causally related to treatment / all           | 0 / 0          | 0 / 0          |  |
| Blood and lymphatic system disorders                 |                |                |  |
| febrile neutropenia                                  |                |                |  |
| alternative dictionary used: MedDRA 8.1              |                |                |  |

|   |                |                |  |
|---|----------------|----------------|--|
| subjects affected / exposed                     | 2 / 54 (3.70%) | 0 / 64 (0.00%) |  |
| occurrences causally related to treatment / all | 2 / 2          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| neutropenia                                     |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 2 / 64 (3.13%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 2 / 2          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| leukopenia                                      |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 1 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Eye disorders                                   |                |                |  |
| visual disturbance                              |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 1 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Gastrointestinal disorders                      |                |                |  |
| abdominal pain                                  |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| nausea  |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 4 / 64 (6.25%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 5 / 5          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| splenic artery aneurysm                         |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |

|   |                |                |  |
|---|----------------|----------------|--|
| subjects affected / exposed                     | 1 / 54 (1.85%) | 0 / 64 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 0          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| rectal haemorrhage                              |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| vomiting  |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 3 / 64 (4.69%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 3 / 3          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Respiratory, thoracic and mediastinal disorders |                |                |  |
| dyspnoea  |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 5 / 64 (7.81%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 5          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| pulmonary embolism                              |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 3 / 64 (4.69%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 3          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Psychiatric disorders                           |                |                |  |
| confusional state                               |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 1 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| psychotic disorder                              |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |

|   |                |                |  |
|---|----------------|----------------|--|
| subjects affected / exposed                     | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 1 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| restlessness                                    |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 1 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Infections and infestations                     |                |                |  |
| bronchitis                                      |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 1 / 54 (1.85%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all | 0 / 1          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| catheter related infection                      |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 1 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| erysipelas                                      |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| pneumonia                                       |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| respiratory tract infection                     |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |



|   |                |                |  |
|---|----------------|----------------|--|
| subjects affected / exposed                     | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| Metabolism and nutrition disorders              |                |                |  |
| anorexia  |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 1 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |
| hyperkalaemia                                   |                |                |  |
| alternative dictionary used: MedDRA 8.1         |                |                |  |
| subjects affected / exposed                     | 0 / 54 (0.00%) | 1 / 64 (1.56%) |  |
| occurrences causally related to treatment / all | 0 / 0          | 0 / 1          |  |
| deaths causally related to treatment / all      | 0 / 0          | 0 / 0          |  |

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

| <b>Non-serious adverse events</b>                     | Pemetrexed and Carboplatin | Pemetrexed and Cisplatin |  |
|---|----------------------------|--------------------------|--|
| Total subjects affected by non-serious adverse events |                            |                          |  |
| subjects affected / exposed                           | 50 / 54 (92.59%)           | 59 / 64 (92.19%)         |  |
| General disorders and administration site conditions  |                            |                          |  |
| asthenia  |                            |                          |  |
| alternative dictionary used: MedDRA 8.1               |                            |                          |  |
| subjects affected / exposed                           | 13 / 54 (24.07%)           | 10 / 64 (15.63%)         |  |
| occurrences (all)                                     | 15                         | 22                       |  |
| chest pain  |                            |                          |  |
| alternative dictionary used: MedDRA 8.1               |                            |                          |  |
| subjects affected / exposed                           | 4 / 54 (7.41%)             | 3 / 64 (4.69%)           |  |
| occurrences (all)                                     | 6                          | 3                        |  |
| fatigue   |                            |                          |  |
| alternative dictionary used: MedDRA 8.1               |                            |                          |  |
| subjects affected / exposed                           | 21 / 54 (38.89%)           | 23 / 64 (35.94%)         |  |
| occurrences (all)                                     | 25                         | 40                       |  |
| mucosal inflammation                                  |                            |                          |  |

|   |   |   |  |
|---|---|---|--|
| <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>  | <p>2 / 54 (3.70%)</p> <p>2</p>  | <p>6 / 64 (9.38%)</p> <p>7</p>  |  |
| <p>pyrexia</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>   | <p>3 / 54 (5.56%)</p> <p>4</p>  | <p>3 / 64 (4.69%)</p> <p>3</p>  |  |
| <p>Respiratory, thoracic and mediastinal disorders</p> <p>cough</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>epistaxis</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>dyspnoea</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> | <p>16 / 54 (29.63%)</p> <p>19</p> <p>4 / 54 (7.41%)</p> <p>6</p> <p>9 / 54 (16.67%)</p> <p>10</p> | <p>6 / 64 (9.38%)</p> <p>7</p> <p>2 / 64 (3.13%)</p> <p>2</p> <p>7 / 64 (10.94%)</p> <p>8</p> |  |
| <p>Psychiatric disorders</p> <p>sleep disorder</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>   | <p>4 / 54 (7.41%)</p> <p>4</p>  | <p>4 / 64 (6.25%)</p> <p>6</p>  |  |
| <p>Investigations</p> <p>alanine aminotransferase increased</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>haemoglobin decreased</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>neutrophil count decreased</p>  | <p>6 / 54 (11.11%)</p> <p>8</p> <p>6 / 54 (11.11%)</p> <p>11</p>                                  | <p>0 / 64 (0.00%)</p> <p>0</p> <p>2 / 64 (3.13%)</p> <p>2</p>                                 |  |

|   |   |   |  |
|---|---|---|--|
| <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>  | <p>10 / 54 (18.52%)</p> <p>22</p>   | <p>4 / 64 (6.25%)</p> <p>11</p>   |  |
| <p>platelet count decreased</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>  | <p>10 / 54 (18.52%)</p> <p>16</p>   | <p>4 / 64 (6.25%)</p> <p>9</p>  |  |
| <p>weight decreased</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>  | <p>3 / 54 (5.56%)</p> <p>3</p>  | <p>3 / 64 (4.69%)</p> <p>5</p>  |  |
| <p>white blood cell count decreased</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>  | <p>9 / 54 (16.67%)</p> <p>17</p>  | <p>2 / 64 (3.13%)</p> <p>4</p>  |  |
| <p>Nervous system disorders</p> <p>dizziness</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>dysgeusia</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>headache</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>paraesthesia</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> | <p>3 / 54 (5.56%)</p> <p>3</p> <p>7 / 54 (12.96%)</p> <p>9</p> <p>6 / 54 (11.11%)</p> <p>8</p> <p>4 / 54 (7.41%)</p> <p>4</p> | <p>4 / 64 (6.25%)</p> <p>5</p> <p>3 / 64 (4.69%)</p> <p>4</p> <p>8 / 64 (12.50%)</p> <p>12</p> <p>3 / 64 (4.69%)</p> <p>3</p> |  |
| Blood and lymphatic system disorders  |   |   |  |

|  |   |  |  |
|--|---|--|--|
| <p>anaemia</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>  | <p>8 / 54 (14.81%)</p> <p>9</p>   | <p>12 / 64 (18.75%)</p> <p>14</p>  |  |
| <p>neutropenia</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>  | <p>15 / 54 (27.78%)</p> <p>36</p>   | <p>21 / 64 (32.81%)</p> <p>34</p>  |  |
| <p>leukopenia</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>   | <p>3 / 54 (5.56%)</p> <p>4</p>  | <p>5 / 64 (7.81%)</p> <p>8</p>   |  |
| <p>thrombocytopenia</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>   | <p>7 / 54 (12.96%)</p> <p>12</p>  | <p>3 / 64 (4.69%)</p> <p>3</p>   |  |
| <p>Ear and labyrinth disorders</p> <p>vertigo</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>   | <p>3 / 54 (5.56%)</p> <p>3</p>  | <p>1 / 64 (1.56%)</p> <p>1</p>   |  |
| <p>Eye disorders</p> <p>conjunctivitis</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>lacrimation increased</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>keratoconjunctivitis sicca</p> <p>alternative dictionary used:<br/>MedDRA 8.1</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> | <p>6 / 54 (11.11%)</p> <p>7</p> <p>3 / 54 (5.56%)</p> <p>3</p> <p>3 / 54 (5.56%)</p> <p>3</p> | <p>1 / 64 (1.56%)</p> <p>1</p> <p>2 / 64 (3.13%)</p> <p>3</p> <p>1 / 64 (1.56%)</p> <p>3</p> |  |
| Gastrointestinal disorders   |   |  |  |

|  |                  |                  |  |
|--|------------------|------------------|--|
| abdominal pain upper                       |                  |                  |  |
| alternative dictionary used:<br>MedDRA 8.1 |                  |                  |  |
| subjects affected / exposed                | 5 / 54 (9.26%)   | 6 / 64 (9.38%)   |  |
| occurrences (all)                          | 6                | 7                |  |
| diarrhoea                                  |                  |                  |  |
| alternative dictionary used:<br>MedDRA 8.1 |                  |                  |  |
| subjects affected / exposed                | 7 / 54 (12.96%)  | 5 / 64 (7.81%)   |  |
| occurrences (all)                          | 11               | 7                |  |
| constipation                               |                  |                  |  |
| alternative dictionary used:<br>MedDRA 8.1 |                  |                  |  |
| subjects affected / exposed                | 8 / 54 (14.81%)  | 17 / 64 (26.56%) |  |
| occurrences (all)                          | 10               | 30               |  |
| dyspepsia                                  |                  |                  |  |
| alternative dictionary used:<br>MedDRA 8.1 |                  |                  |  |
| subjects affected / exposed                | 2 / 54 (3.70%)   | 4 / 64 (6.25%)   |  |
| occurrences (all)                          | 4                | 5                |  |
| dysphagia                                  |                  |                  |  |
| alternative dictionary used:<br>MedDRA 8.1 |                  |                  |  |
| subjects affected / exposed                | 3 / 54 (5.56%)   | 2 / 64 (3.13%)   |  |
| occurrences (all)                          | 3                | 2                |  |
| nausea                                     |                  |                  |  |
| alternative dictionary used:<br>MedDRA 8.1 |                  |                  |  |
| subjects affected / exposed                | 30 / 54 (55.56%) | 40 / 64 (62.50%) |  |
| occurrences (all)                          | 60               | 82               |  |
| stomatitis                                 |                  |                  |  |
| alternative dictionary used:<br>MedDRA 8.1 |                  |                  |  |
| subjects affected / exposed                | 5 / 54 (9.26%)   | 3 / 64 (4.69%)   |  |
| occurrences (all)                          | 7                | 4                |  |
| vomiting                                   |                  |                  |  |
| alternative dictionary used:<br>MedDRA 8.1 |                  |                  |  |
| subjects affected / exposed                | 17 / 54 (31.48%) | 21 / 64 (32.81%) |  |
| occurrences (all)                          | 24               | 31               |  |
| Skin and subcutaneous tissue disorders     |                  |                  |  |

|  |                        |                        |  |
|--|------------------------|------------------------|--|
| alopecia<br>alternative dictionary used:<br>MedDRA 8.1<br>subjects affected / exposed<br>occurrences (all)   | 5 / 54 (9.26%)<br>5    | 4 / 64 (6.25%)<br>4    |  |
| pruritus<br>alternative dictionary used:<br>MedDRA 8.1<br>subjects affected / exposed<br>occurrences (all)   | 3 / 54 (5.56%)<br>3    | 1 / 64 (1.56%)<br>1    |  |
| rash<br>alternative dictionary used:<br>MedDRA 8.1<br>subjects affected / exposed<br>occurrences (all)   | 4 / 54 (7.41%)<br>4    | 2 / 64 (3.13%)<br>3    |  |
| Musculoskeletal and connective tissue disorders<br>back pain<br>alternative dictionary used:<br>MedDRA 8.1<br>subjects affected / exposed<br>occurrences (all) | 1 / 54 (1.85%)<br>1    | 4 / 64 (6.25%)<br>4    |  |
| Infections and infestations<br>nasopharyngitis<br>alternative dictionary used:<br>MedDRA 8.1<br>subjects affected / exposed<br>occurrences (all)               | 4 / 54 (7.41%)<br>5    | 2 / 64 (3.13%)<br>2    |  |
| Metabolism and nutrition disorders<br>anorexia<br>alternative dictionary used:<br>MedDRA 8.1<br>subjects affected / exposed<br>occurrences (all)               | 14 / 54 (25.93%)<br>19 | 10 / 64 (15.63%)<br>17 |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date        | Amendment   |
|-------------|---|
| 30 May 2011 | A protocol amendment after the trial original completed to allow for additional 3 years for collection of additional overall survival data due to number of participants surviving at 3 years. Long-term survival follow-up was increased by this amendment to 6 years. |

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? Yes

| Date          | Interruption  | Restart date |
|---------------|---|--------------|
| 07 March 2008 | The protocol was amended to extend the long-term follow-up period to 6 years to allow for collection of additional overall survival data. | 30 May 2011  |

Notes:

### Limitations and caveats

None reported