



## Clinical trial results:

### A RANDOMIZED DOUBLE-BLIND PHASE 3 TRIAL COMPARING VINTAFOLIDE (EC145) AND PEGYLATED LIPOSOMAL DOXORUBICIN (PLD/DOXIL®/CAELYX®) IN COMBINATION VERSUS PLD IN PARTICIPANTS WITH PLATINUM-RESISTANT OVARIAN CANCER

#### Summary

|                          |                   |
|--------------------------|-------------------|
| EudraCT number           | 2011-000348-11    |
| Trial protocol           | CZ ES BE PL HU GB |
| Global end of trial date | 02 February 2016  |

#### Results information

|                                   |   |
|-----------------------------------|---|
| Result version number             | v1 (current)  |
| This version publication date     | 12 September 2018   |
| First version publication date    | 12 September 2018   |
| Summary attachment (see zip file) | EC-FV-06 CSR Synopsis (FEB-2017) (EC-FV-06 CSR Synopsis (FEB-2017).pdf) |

#### Trial information

##### Trial identification

|                       |          |
|-----------------------|----------|
| Sponsor protocol code | EC-FV-06 |
|-----------------------|----------|

##### Additional study identifiers

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT01170650 |
| WHO universal trial number (UTN)   | -           |

Notes:

#### Sponsors

|                              |  |
|------------------------------|--|
| Sponsor organisation name    | Endocyte, Inc.   |
| Sponsor organisation address | 3000 Kent Avenue, Suite A1-100, West Lafayette, United States, 47906     |
| Public contact               | Christopher Jordan, Endocyte, Inc., 001 3176080769, cjordan@endocyte.com |
| Scientific contact           | Christopher Jordan, Endocyte, Inc., 001 3176080769, cjordan@endocyte.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                                       | Interim          |
| Date of interim/final analysis                       | 17 March 2014    |
| Is this the analysis of the primary completion data? | No               |
| Global end of trial reached?                         | Yes              |
| Global end of trial date                             | 02 February 2016 |
| Was the trial ended prematurely?                     | Yes              |

Notes:

## General information about the trial

Main objective of the trial:

Compare progression-free survival (PFS), based upon investigator assessment using RECIST v 1.1 in participants with platinum-resistant ovarian cancer who receive combination therapy with vintafolide and pegylated liposomal doxorubicin (PLD) (i.e., vintafolide + PLD) with that of participants with platinum-resistant ovarian cancer who receive PLD and placebo. The primary analysis will be conducted in FR (100%) participants as determined by 99mTc-etafolatide scan.

Protection of trial subjects:

Preparation of the ICF is the responsibility of the investigator and must include all elements required by the International Conference on Harmonization (ICH), Good Clinical Practice (GCP), Health Insurance Portability and Accountability Act (HIPAA) or other local regulatory requirements for protection of personal information, and other applicable regulatory requirements and must adhere to the ethical principles that have their origin in the Declaration of Helsinki. The ICF will be approved and reviewed by the sponsor prior to IRB/IEC review.

Background therapy: -

Evidence for comparator: -

|   |                |
|---|----------------|
| Actual start date of recruitment                          | 01 August 2011 |
| 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 | United States: 124     |
| Country: Number of subjects enrolled | Canada: 77             |
| Country: Number of subjects enrolled | Israel: 25             |
| Country: Number of subjects enrolled | Russian Federation: 12 |
| Country: Number of subjects enrolled | Korea, Republic of: 12 |
| Country: Number of subjects enrolled | Spain: 28              |
| Country: Number of subjects enrolled | United Kingdom: 4      |
| Country: Number of subjects enrolled | Belgium: 11            |
| Country: Number of subjects enrolled | Czech Republic: 7      |
| Country: Number of subjects enrolled | France: 16             |
| Country: Number of subjects enrolled | Poland: 5              |
| Worldwide total number of subjects   | 321                    |
| EEA total number of subjects         | 71                     |

Notes:

| <b>Subjects enrolled per age group</b>    |     |
|---|-----|
| 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)                      | 203 |
| From 65 to 84 years                       | 117 |
| 85 years and over                         | 1   |

## Subject disposition

### Recruitment

Recruitment details:

The first patient was enrolled in April 2011. <12 patients had enrolled into the study when enrollment was suspended from August 2011 through April 2012 due to an interruption in the study's PLD supply. Once supply had been secured, enrollment increased such that ~57% of patients were enrolled within 12 months of the first planned interim analysis.

### Pre-assignment

Screening details: -

### Pre-assignment period milestones

|                              |     |
|------------------------------|-----|
| Number of subjects started   | 321 |
| Number of subjects completed | 230 |

### Pre-assignment subject non-completion reasons

|                            |                         |
|----------------------------|-------------------------|
| Reason: Number of subjects | Inclusion/Exclusion: 91 |
|----------------------------|-------------------------|

### Period 1

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

Blinding implementation details:

Study EC-FV-06 is double-blinded in order to limit the occurrence of conscious or unconscious bias in the conduct and interpretation of the clinical trial arising from the influence which the knowledge of treatment may have on the execution of the clinical study.

### Arms

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

|                  |                   |
|------------------|-------------------|
| <b>Arm title</b> | Vintafolide + PLD |
|------------------|-------------------|

Arm description: -

|  |                        |
|--|------------------------|
| Arm type                               | Experimental           |
| Investigational medicinal product name | EC145                  |
| Investigational medicinal product code |                        |
| Other name                             | Vintafolide            |
| Pharmaceutical forms                   | Solution for injection |
| Routes of administration               | Intravenous use        |

Dosage and administration details:

2.5mg IV on days 1, 3, 5 of weeks 1 and 3 of a 28 day cycle.

|  |                                 |
|--|---------------------------------|
| Investigational medicinal product name | PLD                             |
| Investigational medicinal product code |                                 |
| Other name                             | Doxorubicin pegylated liposomal |
| Pharmaceutical forms                   | Solution for injection/infusion |
| Routes of administration               | Intravascular use               |

Dosage and administration details:

50mg/m<sup>2</sup> IBW IV on day 1 of 28 day cycle

|                  |               |
|------------------|---------------|
| <b>Arm title</b> | Placebo + PLD |
|------------------|---------------|

Arm description: -

|          |                   |
|----------|-------------------|
| Arm type | Active comparator |
|----------|-------------------|

|  |                                 |
|--|---------------------------------|
| Investigational medicinal product name | PLD                             |
| Investigational medicinal product code |                                 |
| Other name                             | Doxorubicin pegylated liposomal |
| Pharmaceutical forms                   | Solution for injection/infusion |
| Routes of administration               | Intravascular use               |

Dosage and administration details:

50mg/m<sup>2</sup> IBW IV on day 1 of 28 day cycle

| <b>Number of subjects in period 1<sup>[1]</sup></b> | Vintafolide + PLD | Placebo + PLD |
|---|-------------------|---------------|
| Started   | 143               | 87            |
| Completed   | 143               | 87            |

Notes:

[1] - The number of subjects reported to be in the baseline period are not the same as the worldwide number enrolled in the trial. It is expected that these numbers will be the same.

Justification: The baseline period data include only those who completed the treatment whereas the worldwide number enrolled includes all patients enrolled.

## Period 2

|                              |                         |
|------------------------------|-------------------------|
| Period 2 title               | First Interim Analysis  |
| Is this the baseline period? | No                      |
| Allocation method            | Randomised - controlled |
| Blinding used                | Double blind            |
| Roles blinded                | Subject, Investigator   |

## Arms

|                              |                   |
|------------------------------|-------------------|
| Are arms mutually exclusive? | Yes               |
| <b>Arm title</b>             | Vintafolide + PLD |

Arm description: -

|  |                                     |
|--|-------------------------------------|
| Arm type                               | Experimental                        |
| Investigational medicinal product name | EC145                               |
| Investigational medicinal product code |                                     |
| Other name                             | Vintafolide                         |
| Pharmaceutical forms                   | Solution for solution for injection |
| Routes of administration               | Intravenous use                     |

Dosage and administration details:

2.5mg IV on days 1, 3, 5 of weeks 1 and 3 of a 28 day cycle.

|  |                                 |
|--|---------------------------------|
| Investigational medicinal product name | PLD                             |
| Investigational medicinal product code |                                 |
| Other name                             | Doxorubicin pegylated liposomal |
| Pharmaceutical forms                   | Solution for injection/infusion |
| Routes of administration               | Intravascular use               |

Dosage and administration details:

50mg/m<sup>2</sup> IBW IV on day 1 of 28 day cycle

|                    |                   |
|--------------------|-------------------|
| <b>Arm title</b>   | Placebo + PLD     |
| Arm description: - |                   |
| Arm type           | Active comparator |

|  |                                 |
|--|---------------------------------|
| Investigational medicinal product name | PLD                             |
| Investigational medicinal product code |                                 |
| Other name                             | Doxorubicin pegylated liposomal |
| Pharmaceutical forms                   | Solution for injection/infusion |
| Routes of administration               | Intravascular use               |

Dosage and administration details:

50mg/m<sup>2</sup> IBW IV on day 1 of 28 day cycle

| <b>Number of subjects in period 2</b> | Vintafolide + PLD | Placebo + PLD |
|---------------------------------------|-------------------|---------------|
| Started                               | 143               | 87            |
| Completed                             | 143               | 87            |

## Baseline characteristics

### Reporting groups

|                                |                   |
|--------------------------------|-------------------|
| Reporting group title          | Vintafolide + PLD |
| Reporting group description: - |                   |
| Reporting group title          | Placebo + PLD     |
| Reporting group description: - |                   |

| Reporting group values             | Vintafolide + PLD | Placebo + PLD | Total |
|------------------------------------|-------------------|---------------|-------|
| Number of subjects                 | 143               | 87            | 230   |
| Age categorical<br>Units: Subjects |                   |               |       |

|  |        |         |     |
|--|--------|---------|-----|
| Age continuous<br>Units: years         |        |         |     |
| arithmetic mean                        | 60.8   | 61.0    |     |
| standard deviation                     | ± 9.99 | ± 10.64 | -   |
| Gender categorical<br>Units: Subjects  |        |         |     |
| Female                                 | 143    | 87      | 230 |
| Male                                   | 0      | 0       | 0   |
| Race<br>Units: Subjects                |        |         |     |
| American Indian or Alaska Native       | 0      | 1       | 1   |
| Asian                                  | 14     | 10      | 24  |
| Black/African American                 | 8      | 0       | 8   |
| White                                  | 121    | 75      | 196 |
| Unknown                                | 0      | 1       | 1   |
| ECOG<br>Units: Subjects                |        |         |     |
| 00                                     | 71     | 51      | 122 |
| 01                                     | 72     | 36      | 108 |
| Type of Cancer<br>Units: Subjects      |        |         |     |
| Ovarian                                | 123    | 73      | 196 |
| Primary Peritoneal                     | 13     | 12      | 25  |
| Fallopian Tube                         | 7      | 2       | 9   |
| Regimen<br>Units: Subjects             |        |         |     |
| Primary platinum therapy only          | 64     | 36      | 100 |
| Primary and secondary platinum therapy | 58     | 36      | 94  |
| Additional therapy                     | 21     | 15      | 36  |

## End points

### End points reporting groups

|                                |                   |
|--------------------------------|-------------------|
| Reporting group title          | Vintafolide + PLD |
| Reporting group description: - |                   |
| Reporting group title          | Placebo + PLD     |
| Reporting group description: - |                   |
| Reporting group title          | Vintafolide + PLD |
| Reporting group description: - |                   |
| Reporting group title          | Placebo + PLD     |
| Reporting group description: - |                   |

### Primary: Progression-free survival

|                               |                           |
|-------------------------------|---------------------------|
| End point title               | Progression-free survival |
| End point description:        |                           |
| End point type                | Primary                   |
| End point timeframe:          |                           |
| 22 April 2011 - 17 March 2014 |                           |

| End point values            | Vintafolide + PLD | Placebo + PLD   |  |  |
|-----------------------------|-------------------|-----------------|--|--|
| Subject group type          | Reporting group   | Reporting group |  |  |
| Number of subjects analysed | 143               | 87              |  |  |
| Units: Subjects             |                   |                 |  |  |
| PFS Events                  | 75                | 35              |  |  |
| Progressions                | 65                | 28              |  |  |
| Deaths                      | 10                | 7               |  |  |
| Censored                    | 68                | 52              |  |  |

### Statistical analyses

|   |                                   |
|---|-----------------------------------|
| Statistical analysis title              | Efficacy Analysis                 |
| Comparison groups                       | Vintafolide + PLD v Placebo + PLD |
| Number of subjects included in analysis | 230                               |
| Analysis specification                  | Pre-specified                     |
| Analysis type                           | superiority                       |
| P-value                                 | = 0.025                           |
| Method                                  | Regression, Cox                   |

### Primary: Progression-free survival



|                               |                           |
|-------------------------------|---------------------------|
| End point title               | Progression-free survival |
| End point description:        |                           |
| End point type                | Primary                   |
| End point timeframe:          |                           |
| 22 April 2011 - 17 March 2014 |                           |

| End point values                 | Vintafolide + PLD   | Placebo + PLD       |  |  |
|----------------------------------|---------------------|---------------------|--|--|
| Subject group type               | Reporting group     | Reporting group     |  |  |
| Number of subjects analysed      | 143                 | 87                  |  |  |
| Units: months                    |                     |                     |  |  |
| median (confidence interval 95%) |                     |                     |  |  |
| PFS Rate at 3 months             | 69.4 (60.3 to 76.9) | 62.6 (49.8 to 73.0) |  |  |
| PFS Rate at 6 months             | 44.3 (34.3 to 53.8) | 43.1 (27.2 to 58.0) |  |  |

### Statistical analyses

|   |                                   |
|---|-----------------------------------|
| Statistical analysis title              | Efficacy Analysis                 |
| Comparison groups                       | Vintafolide + PLD v Placebo + PLD |
| Number of subjects included in analysis | 230                               |
| Analysis specification                  | Pre-specified                     |
| Analysis type                           | superiority                       |
| P-value                                 | = 0.025                           |
| Method                                  | Regression, Cox                   |

### Secondary: Overall survival

|                               |                  |
|-------------------------------|------------------|
| End point title               | Overall survival |
| End point description:        |                  |
| End point type                | Secondary        |
| End point timeframe:          |                  |
| 22 April 2011 - 17 March 2014 |                  |

| End point values            | Vintafolide + PLD | Placebo + PLD   |  |  |
|-----------------------------|-------------------|-----------------|--|--|
| Subject group type          | Reporting group   | Reporting group |  |  |
| Number of subjects analysed | 143               | 87              |  |  |
| Units: Events               |                   |                 |  |  |
| Number of OS Events         | 37                | 22              |  |  |
| Number Censored             | 106               | 65              |  |  |

### Statistical analyses

No statistical analyses for this end point

### Secondary: Overall Survival

|                               |                  |
|-------------------------------|------------------|
| End point title               | Overall Survival |
| End point description:        |                  |
| End point type                | Secondary        |
| End point timeframe:          |                  |
| 22 April 2011 - 17 March 2014 |                  |

| End point values                 | Vintafolide + PLD   | Placebo + PLD       |  |  |
|----------------------------------|---------------------|---------------------|--|--|
| Subject group type               | Reporting group     | Reporting group     |  |  |
| Number of subjects analysed      | 143                 | 87                  |  |  |
| Units: months                    |                     |                     |  |  |
| median (confidence interval 95%) |                     |                     |  |  |
| OS Rate at 12 months             | 60.9 (48.4 to 71.2) | 58.2 (39.0 to 73.2) |  |  |
| OS Rate at 18 months             | 49.4 (30.3 to 66.0) | 33.9 (12.0 to 57.7) |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Number of target lesions at study entry

|                        |   |
|------------------------|---|
| End point title        | Number of target lesions at study entry |
| End point description: |   |
| End point type         | Other pre-specified                     |
| End point timeframe:   |   |
| Baseline               |   |

| <b>End point values</b>       | Vintafolide + PLD | Placebo + PLD   |  |  |
|-------------------------------|-------------------|-----------------|--|--|
| Subject group type            | Reporting group   | Reporting group |  |  |
| Number of subjects analysed   | 143               | 87              |  |  |
| Units: lesions                |                   |                 |  |  |
| median (full range (min-max)) | 2.0 (1 to 5)      | 2.0 (1 to 5)    |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: RECIST sum of diameters at study entry

|                        |  |
|------------------------|--|
| End point title        | RECIST sum of diameters at study entry |
| End point description: |  |
| End point type         | Other pre-specified                    |
| End point timeframe:   |  |
| Baseline               |  |

| <b>End point values</b>              | Vintafolide + PLD | Placebo + PLD   |  |  |
|--------------------------------------|-------------------|-----------------|--|--|
| Subject group type                   | Reporting group   | Reporting group |  |  |
| Number of subjects analysed          | 143               | 87              |  |  |
| Units: mm                            |                   |                 |  |  |
| arithmetic mean (standard deviation) | 73.6 (± 63.05)    | 68.5 (± 57.28)  |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: RECIST sum of diameters at study entry

|                        |  |
|------------------------|--|
| End point title        | RECIST sum of diameters at study entry |
| End point description: |  |
| End point type         | Other pre-specified                    |
| End point timeframe:   |  |
| Baseline               |  |

| End point values              | Vintafolide + PLD | Placebo + PLD    |  |  |
|-------------------------------|-------------------|------------------|--|--|
| Subject group type            | Reporting group   | Reporting group  |  |  |
| Number of subjects analysed   | 143               | 87               |  |  |
| Units: mm                     |                   |                  |  |  |
| median (full range (min-max)) | 61.0 (10 to 359)  | 48.0 (10 to 339) |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: CA-125 Levels at study entry

|                        |                              |
|------------------------|------------------------------|
| End point title        | CA-125 Levels at study entry |
| End point description: |                              |
| End point type         | Other pre-specified          |
| End point timeframe:   |                              |
| Baseline               |                              |

| End point values                     | Vintafolide + PLD       | Placebo + PLD          |  |  |
|--------------------------------------|-------------------------|------------------------|--|--|
| Subject group type                   | Reporting group         | Reporting group        |  |  |
| Number of subjects analysed          | 143                     | 87                     |  |  |
| Units: U/mL                          |                         |                        |  |  |
| arithmetic mean (standard deviation) | 1556.3 ( $\pm$ 5865.51) | 808.3 ( $\pm$ 1352.35) |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: CA-125 Levels at study entry

|                        |                              |
|------------------------|------------------------------|
| End point title        | CA-125 Levels at study entry |
| End point description: |                              |
| End point type         | Other pre-specified          |
| End point timeframe:   |                              |
| Baseline               |                              |

| End point values              | Vintafolide + PLD  | Placebo + PLD     |  |  |
|-------------------------------|--------------------|-------------------|--|--|
| Subject group type            | Reporting group    | Reporting group   |  |  |
| Number of subjects analysed   | 143                | 87                |  |  |
| Units: U/mL                   |                    |                   |  |  |
| median (full range (min-max)) | 248.0 (6 to 64480) | 242.0 (4 to 8634) |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Treatment-free survival

|                        |                         |
|------------------------|-------------------------|
| End point title        | Treatment-free survival |
| End point description: |                         |
| End point type         | Other pre-specified     |
| End point timeframe:   |                         |
| Baseline               |                         |

| End point values                     | Vintafolide + PLD | Placebo + PLD     |  |  |
|--------------------------------------|-------------------|-------------------|--|--|
| Subject group type                   | Reporting group   | Reporting group   |  |  |
| Number of subjects analysed          | 143               | 87                |  |  |
| Units: months                        |                   |                   |  |  |
| arithmetic mean (standard deviation) | 5.7 ( $\pm$ 4.71) | 5.7 ( $\pm$ 3.72) |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Treatment-free survival

|                        |                         |
|------------------------|-------------------------|
| End point title        | Treatment-free survival |
| End point description: |                         |
| End point type         | Other pre-specified     |
| End point timeframe:   |                         |
| Baseline               |                         |

| End point values              | Vintafolide + PLD | Placebo + PLD   |  |  |
|-------------------------------|-------------------|-----------------|--|--|
| Subject group type            | Reporting group   | Reporting group |  |  |
| Number of subjects analysed   | 143               | 87              |  |  |
| Units: months                 |                   |                 |  |  |
| median (full range (min-max)) | 5.1 (0 to 38)     | 5.3 (1 to 24)   |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Platinum-free interval

|                        |                        |
|------------------------|------------------------|
| End point title        | Platinum-free interval |
| End point description: |                        |
| End point type         | Other pre-specified    |
| End point timeframe:   |                        |
| Baseline               |                        |

| End point values                     | Vintafolide + PLD | Placebo + PLD     |  |  |
|--------------------------------------|-------------------|-------------------|--|--|
| Subject group type                   | Reporting group   | Reporting group   |  |  |
| Number of subjects analysed          | 141               | 84                |  |  |
| Units: months                        |                   |                   |  |  |
| arithmetic mean (standard deviation) | 3.2 ( $\pm$ 1.87) | 3.3 ( $\pm$ 1.86) |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Platinum-free interval

|                        |                        |
|------------------------|------------------------|
| End point title        | Platinum-free interval |
| End point description: |                        |
| End point type         | Other pre-specified    |
| End point timeframe:   |                        |
| Baseline               |                        |

| End point values              | Vintafolide + PLD | Placebo + PLD   |  |  |
|-------------------------------|-------------------|-----------------|--|--|
| Subject group type            | Reporting group   | Reporting group |  |  |
| Number of subjects analysed   | 141               | 84              |  |  |
| Units: months                 |                   |                 |  |  |
| median (full range (min-max)) | 3.7 (0 to 7)      | 3.7 (0 to 6)    |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Time since initial cancer diagnosis

|                        |                                     |
|------------------------|-------------------------------------|
| End point title        | Time since initial cancer diagnosis |
| End point description: |                                     |
| End point type         | Other pre-specified                 |
| End point timeframe:   |                                     |
| Baseline               |                                     |

| End point values                     | Vintafolide + PLD   | Placebo + PLD       |  |  |
|--------------------------------------|---------------------|---------------------|--|--|
| Subject group type                   | Reporting group     | Reporting group     |  |  |
| Number of subjects analysed          | 143                 | 87                  |  |  |
| Units: months                        |                     |                     |  |  |
| arithmetic mean (standard deviation) | 20.7 ( $\pm$ 12.09) | 26.2 ( $\pm$ 27.69) |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Time since initial cancer diagnosis

|                        |                                     |
|------------------------|-------------------------------------|
| End point title        | Time since initial cancer diagnosis |
| End point description: |                                     |
| End point type         | Other pre-specified                 |
| End point timeframe:   |                                     |
| Baseline               |                                     |

| End point values              | Vintafolide + PLD | Placebo + PLD   |  |  |
|-------------------------------|-------------------|-----------------|--|--|
| Subject group type            | Reporting group   | Reporting group |  |  |
| Number of subjects analysed   | 143               | 87              |  |  |
| Units: months                 |                   |                 |  |  |
| median (full range (min-max)) | 15.9 (8 to 73)    | 16.0 (8 to 207) |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Size of residual disease at the end of the primary debulking surgery or attempted debulking surgery (cm)

|                 |  |
|-----------------|--|
| End point title | Size of residual disease at the end of the primary debulking surgery or attempted debulking surgery (cm) |
|-----------------|--|

End point description:

|                |                     |
|----------------|---------------------|
| End point type | Other pre-specified |
|----------------|---------------------|

End point timeframe:

Baseline

| End point values            | Vintafolide + PLD | Placebo + PLD   |  |  |
|-----------------------------|-------------------|-----------------|--|--|
| Subject group type          | Reporting group   | Reporting group |  |  |
| Number of subjects analysed | 143               | 87              |  |  |
| Units: Subjects             |                   |                 |  |  |
| <2.0                        | 95                | 69              |  |  |
| >2.0                        | 21                | 3               |  |  |
| Not Applicable              | 2                 | 0               |  |  |
| Unknown                     | 25                | 15              |  |  |

### Statistical analyses

No statistical analyses for this end point

### Other pre-specified: Number of target lesions at study entry

|                 |   |
|-----------------|---|
| End point title | Number of target lesions at study entry |
|-----------------|---|

End point description:

|                |                     |
|----------------|---------------------|
| End point type | Other pre-specified |
|----------------|---------------------|

End point timeframe:

Baseline



| <b>End point values</b>              | Vintafolide + PLD | Placebo + PLD     |  |  |
|--------------------------------------|-------------------|-------------------|--|--|
| Subject group type                   | Reporting group   | Reporting group   |  |  |
| Number of subjects analysed          | 143               | 87                |  |  |
| Units: lesions                       |                   |                   |  |  |
| arithmetic mean (standard deviation) | 2.3 ( $\pm$ 1.26) | 2.4 ( $\pm$ 1.28) |  |  |

### Statistical analyses

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No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

22 April 2011 - 17 March 2014

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

### Dictionary used

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

|                    |     |
|--------------------|-----|
| Dictionary version | 4.0 |
|--------------------|-----|

### Reporting groups

|                       |                   |
|-----------------------|-------------------|
| Reporting group title | Vintafolide + PLD |
|-----------------------|-------------------|

Reporting group description: -

|                       |               |
|-----------------------|---------------|
| Reporting group title | Placebo + PLD |
|-----------------------|---------------|

Reporting group description: -

| Serious adverse events                            | Vintafolide + PLD | Placebo + PLD     |  |
|---|-------------------|-------------------|--|
| Total subjects affected by serious adverse events |                   |                   |  |
| subjects affected / exposed                       | 79 / 189 (41.80%) | 41 / 120 (34.17%) |  |
| number of deaths (all causes)                     | 5                 | 3                 |  |
| number of deaths resulting from adverse events    |                   |                   |  |
| Investigations                                    |                   |                   |  |
| Weight decreased                                  |                   |                   |  |
| subjects affected / exposed                       | 3 / 189 (1.59%)   | 0 / 120 (0.00%)   |  |
| occurrences causally related to treatment / all   | 0 / 39            | 0 / 9             |  |
| deaths causally related to treatment / all        | 0 / 5             | 0 / 3             |  |
| international normalized ratio increased          |                   |                   |  |
| subjects affected / exposed                       | 2 / 189 (1.06%)   | 0 / 120 (0.00%)   |  |
| occurrences causally related to treatment / all   | 0 / 39            | 0 / 9             |  |
| deaths causally related to treatment / all        | 0 / 5             | 0 / 3             |  |
| Cardiac disorders                                 |                   |                   |  |
| Cardiac arrest                                    |                   |                   |  |
| subjects affected / exposed                       | 1 / 189 (0.53%)   | 0 / 120 (0.00%)   |  |
| occurrences causally related to treatment / all   | 0 / 39            | 0 / 9             |  |
| deaths causally related to treatment / all        | 1 / 5             | 0 / 3             |  |
| Nervous system disorders                          |                   |                   |  |
| Brain edema                                       |                   |                   |  |

|  |                 |                 |  |
|--|-----------------|-----------------|--|
| subjects affected / exposed                          | 1 / 189 (0.53%) | 0 / 120 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all           | 1 / 5           | 0 / 3           |  |
| Cerebral infarction                                  |                 |                 |  |
| subjects affected / exposed                          | 1 / 189 (0.53%) | 0 / 120 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all           | 1 / 5           | 0 / 3           |  |
| Cerebral thrombosis                                  |                 |                 |  |
| subjects affected / exposed                          | 1 / 189 (0.53%) | 0 / 120 (0.00%) |  |
| occurrences causally related to treatment / all      | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all           | 1 / 5           | 0 / 3           |  |
| Blood and lymphatic system disorders                 |                 |                 |  |
| Febrile neutropenia                                  |                 |                 |  |
| subjects affected / exposed                          | 4 / 189 (2.12%) | 3 / 120 (2.50%) |  |
| occurrences causally related to treatment / all      | 4 / 39          | 2 / 9           |  |
| deaths causally related to treatment / all           | 0 / 5           | 0 / 3           |  |
| Neutropenia  |                 |                 |  |
| subjects affected / exposed                          | 5 / 189 (2.65%) | 1 / 120 (0.83%) |  |
| occurrences causally related to treatment / all      | 5 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all           | 0 / 5           | 0 / 3           |  |
| Anaemia  |                 |                 |  |
| subjects affected / exposed                          | 4 / 189 (2.12%) | 0 / 120 (0.00%) |  |
| occurrences causally related to treatment / all      | 4 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all           | 0 / 5           | 0 / 3           |  |
| Thrombocytopenia                                     |                 |                 |  |
| subjects affected / exposed                          | 1 / 189 (0.53%) | 2 / 120 (1.67%) |  |
| occurrences causally related to treatment / all      | 1 / 39          | 2 / 9           |  |
| deaths causally related to treatment / all           | 0 / 5           | 0 / 3           |  |
| General disorders and administration site conditions |                 |                 |  |
| Pyrexia  |                 |                 |  |
| subjects affected / exposed                          | 4 / 189 (2.12%) | 1 / 120 (0.83%) |  |
| occurrences causally related to treatment / all      | 3 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all           | 0 / 5           | 0 / 3           |  |

|   |                  |                 |  |
|---|------------------|-----------------|--|
| Fatigue   |                  |                 |  |
| subjects affected / exposed                     | 1 / 189 (0.53%)  | 3 / 120 (2.50%) |  |
| occurrences causally related to treatment / all | 0 / 39           | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5            | 0 / 3           |  |
| Sudden death                                    |                  |                 |  |
| subjects affected / exposed                     | 1 / 189 (0.53%)  | 0 / 120 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 39           | 0 / 9           |  |
| deaths causally related to treatment / all      | 1 / 5            | 0 / 3           |  |
| Gastrointestinal disorders                      |                  |                 |  |
| Small intestinal obstruction                    |                  |                 |  |
| subjects affected / exposed                     | 10 / 189 (5.29%) | 9 / 120 (7.50%) |  |
| occurrences causally related to treatment / all | 3 / 39           | 1 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5            | 0 / 3           |  |
| Vomiting  |                  |                 |  |
| subjects affected / exposed                     | 9 / 189 (4.76%)  | 1 / 120 (0.83%) |  |
| occurrences causally related to treatment / all | 7 / 39           | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5            | 0 / 3           |  |
| Abdominal pain                                  |                  |                 |  |
| subjects affected / exposed                     | 8 / 189 (4.23%)  | 1 / 120 (0.83%) |  |
| occurrences causally related to treatment / all | 6 / 39           | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5            | 0 / 3           |  |
| Constipation                                    |                  |                 |  |
| subjects affected / exposed                     | 6 / 189 (3.17%)  | 3 / 120 (2.50%) |  |
| occurrences causally related to treatment / all | 5 / 39           | 2 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5            | 0 / 3           |  |
| Intestinal obstruction                          |                  |                 |  |
| subjects affected / exposed                     | 6 / 189 (3.17%)  | 3 / 120 (2.50%) |  |
| occurrences causally related to treatment / all | 0 / 39           | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5            | 0 / 3           |  |
| Nausea  |                  |                 |  |
| subjects affected / exposed                     | 6 / 189 (3.17%)  | 3 / 120 (2.50%) |  |
| occurrences causally related to treatment / all | 6 / 39           | 1 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5            | 0 / 3           |  |
| Ascites   |                  |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 4 / 189 (2.12%) | 1 / 120 (0.83%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5           | 0 / 3           |  |
| Large intestinal obstruction                    |                 |                 |  |
| subjects affected / exposed                     | 4 / 189 (2.12%) | 0 / 120 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5           | 0 / 3           |  |
| Stomatitis                                      |                 |                 |  |
| subjects affected / exposed                     | 2 / 189 (1.06%) | 2 / 120 (1.67%) |  |
| occurrences causally related to treatment / all | 2 / 39          | 2 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5           | 0 / 3           |  |
| Diarrhoea                                       |                 |                 |  |
| subjects affected / exposed                     | 3 / 189 (1.59%) | 0 / 120 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5           | 0 / 3           |  |
| Gastrointestinal haemorrhage                    |                 |                 |  |
| subjects affected / exposed                     | 2 / 189 (1.06%) | 1 / 120 (0.83%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5           | 0 / 3           |  |
| Hiatus hernia                                   |                 |                 |  |
| subjects affected / exposed                     | 1 / 189 (0.53%) | 0 / 120 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 1 / 5           | 0 / 3           |  |
| Respiratory, thoracic and mediastinal disorders |                 |                 |  |
| Pulmonary embolism                              |                 |                 |  |
| subjects affected / exposed                     | 7 / 189 (3.70%) | 2 / 120 (1.67%) |  |
| occurrences causally related to treatment / all | 3 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 1 / 5           | 0 / 3           |  |
| Pleural effusion                                |                 |                 |  |
| subjects affected / exposed                     | 6 / 189 (3.17%) | 0 / 120 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5           | 0 / 3           |  |
| Deep vein thrombosis                            |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 2 / 189 (1.06%) | 1 / 120 (0.83%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5           | 0 / 3           |  |
| Acute respiratory failure                       |                 |                 |  |
| subjects affected / exposed                     | 1 / 189 (0.53%) | 0 / 120 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 1 / 5           | 0 / 3           |  |
| Dyspnoea  |                 |                 |  |
| subjects affected / exposed                     | 0 / 189 (0.00%) | 1 / 120 (0.83%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5           | 1 / 3           |  |
| Eosinophilic pneumonia                          |                 |                 |  |
| subjects affected / exposed                     | 0 / 189 (0.00%) | 1 / 120 (0.83%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 1 / 5           | 0 / 3           |  |
| Aspiration Pneumonia                            |                 |                 |  |
| subjects affected / exposed                     | 0 / 189 (0.00%) | 1 / 120 (0.83%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5           | 1 / 3           |  |
| Respiratory distress                            |                 |                 |  |
| subjects affected / exposed                     | 1 / 189 (0.53%) | 0 / 120 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 1 / 5           | 0 / 3           |  |
| Renal and urinary disorders                     |                 |                 |  |
| Urinary tract obstruction                       |                 |                 |  |
| subjects affected / exposed                     | 3 / 189 (1.59%) | 1 / 120 (0.83%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5           | 0 / 3           |  |
| Infections and infestations                     |                 |                 |  |
| Pneumonia                                       |                 |                 |  |
| subjects affected / exposed                     | 2 / 189 (1.06%) | 0 / 120 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5           | 0 / 3           |  |
| Staphylococcal sepsis                           |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 2 / 189 (1.06%) | 0 / 120 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5           | 0 / 3           |  |
| Urinary tract infection                         |                 |                 |  |
| subjects affected / exposed                     | 0 / 189 (0.00%) | 2 / 120 (1.67%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5           | 0 / 3           |  |
| infectious peritonitis                          |                 |                 |  |
| subjects affected / exposed                     | 0 / 189 (0.00%) | 1 / 120 (0.83%) |  |
| occurrences causally related to treatment / all | 0 / 39          | 0 / 9           |  |
| deaths causally related to treatment / all      | 0 / 5           | 1 / 3           |  |

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

| <b>Non-serious adverse events</b>                     | Vintafolide + PLD  | Placebo + PLD      |  |
|---|--------------------|--------------------|--|
| Total subjects affected by non-serious adverse events |                    |                    |  |
| subjects affected / exposed                           | 186 / 189 (98.41%) | 116 / 120 (96.67%) |  |
| Investigations  |                    |                    |  |
| Weight decreased                                      |                    |                    |  |
| subjects affected / exposed                           | 27 / 189 (14.29%)  | 9 / 120 (7.50%)    |  |
| occurrences (all)                                     | 36                 | 36                 |  |
| Gamma-glutamyltransferase increased                   |                    |                    |  |
| subjects affected / exposed                           | 19 / 189 (10.05%)  | 5 / 120 (4.17%)    |  |
| occurrences (all)                                     | 24                 | 24                 |  |
| Vascular disorders                                    |                    |                    |  |
| Hypertension  |                    |                    |  |
| subjects affected / exposed                           | 15 / 189 (7.94%)   | 2 / 120 (1.67%)    |  |
| occurrences (all)                                     | 17                 | 17                 |  |
| Hypotension   |                    |                    |  |
| subjects affected / exposed                           | 10 / 189 (5.29%)   | 2 / 120 (1.67%)    |  |
| occurrences (all)                                     | 12                 | 12                 |  |
| Nervous system disorders                              |                    |                    |  |
| Peripheral sensory neuropathy                         |                    |                    |  |
| subjects affected / exposed                           | 60 / 189 (31.75%)  | 19 / 120 (15.83%)  |  |
| occurrences (all)                                     | 79                 | 79                 |  |

|  |                    |                   |  |
|--|--------------------|-------------------|--|
| Headache   |                    |                   |  |
| subjects affected / exposed                          | 46 / 189 (24.34%)  | 23 / 120 (19.17%) |  |
| occurrences (all)                                    | 69                 | 69                |  |
| Dizziness  |                    |                   |  |
| subjects affected / exposed                          | 32 / 189 (16.93%)  | 18 / 120 (15.00%) |  |
| occurrences (all)                                    | 50                 | 50                |  |
| Dysgeusia  |                    |                   |  |
| subjects affected / exposed                          | 20 / 189 (10.58%)  | 10 / 120 (8.33%)  |  |
| occurrences (all)                                    | 30                 | 30                |  |
| Blood and lymphatic system disorders                 |                    |                   |  |
| Neutropenia  |                    |                   |  |
| subjects affected / exposed                          | 79 / 189 (41.80%)  | 39 / 120 (32.50%) |  |
| occurrences (all)                                    | 118                | 118               |  |
| Anaemia  |                    |                   |  |
| subjects affected / exposed                          | 71 / 189 (37.57%)  | 27 / 120 (22.50%) |  |
| occurrences (all)                                    | 98                 | 98                |  |
| Thrombocytopenia                                     |                    |                   |  |
| subjects affected / exposed                          | 19 / 189 (10.05%)  | 9 / 120 (7.50%)   |  |
| occurrences (all)                                    | 28                 | 28                |  |
| Leukopenia   |                    |                   |  |
| subjects affected / exposed                          | 18 / 189 (9.52%)   | 6 / 120 (5.00%)   |  |
| occurrences (all)                                    | 24                 | 24                |  |
| General disorders and administration site conditions |                    |                   |  |
| Fatigue  |                    |                   |  |
| subjects affected / exposed                          | 112 / 189 (59.26%) | 49 / 120 (40.83%) |  |
| occurrences (all)                                    | 161                | 161               |  |
| Asthenia   |                    |                   |  |
| subjects affected / exposed                          | 37 / 189 (19.58%)  | 16 / 120 (13.33%) |  |
| occurrences (all)                                    | 53                 | 53                |  |
| Pyrexia  |                    |                   |  |
| subjects affected / exposed                          | 39 / 189 (20.63%)  | 10 / 120 (8.33%)  |  |
| occurrences (all)                                    | 49                 | 49                |  |
| Oedema peripheral                                    |                    |                   |  |
| subjects affected / exposed                          | 33 / 189 (17.46%)  | 12 / 120 (10.00%) |  |
| occurrences (all)                                    | 45                 | 45                |  |
| Chills   |                    |                   |  |



|                             |                    |                   |  |
|-----------------------------|--------------------|-------------------|--|
| subjects affected / exposed | 12 / 189 (6.35%)   | 6 / 120 (5.00%)   |  |
| occurrences (all)           | 18                 | 18                |  |
| Influenza like illness      |                    |                   |  |
| subjects affected / exposed | 8 / 189 (4.23%)    | 7 / 120 (5.83%)   |  |
| occurrences (all)           | 15                 | 15                |  |
| Pain                        |                    |                   |  |
| subjects affected / exposed | 14 / 189 (7.41%)   | 1 / 120 (0.83%)   |  |
| occurrences (all)           | 15                 | 15                |  |
| Malaise                     |                    |                   |  |
| subjects affected / exposed | 10 / 189 (5.29%)   | 4 / 120 (3.33%)   |  |
| occurrences (all)           | 14                 | 14                |  |
| Chest pain                  |                    |                   |  |
| subjects affected / exposed | 11 / 189 (5.82%)   | 2 / 120 (1.67%)   |  |
| occurrences (all)           | 13                 | 13                |  |
| Gastrointestinal disorders  |                    |                   |  |
| Nausea                      |                    |                   |  |
| subjects affected / exposed | 115 / 189 (60.85%) | 67 / 120 (55.83%) |  |
| occurrences (all)           | 182                | 182               |  |
| Stomatitis                  |                    |                   |  |
| subjects affected / exposed | 99 / 189 (52.38%)  | 54 / 120 (45.00%) |  |
| occurrences (all)           | 153                | 153               |  |
| Constipation                |                    |                   |  |
| subjects affected / exposed | 101 / 189 (53.44%) | 39 / 120 (32.50%) |  |
| occurrences (all)           | 140                | 140               |  |
| Abdominal pain              |                    |                   |  |
| subjects affected / exposed | 87 / 189 (46.03%)  | 26 / 120 (21.67%) |  |
| occurrences (all)           | 113                | 113               |  |
| Vomiting                    |                    |                   |  |
| subjects affected / exposed | 68 / 189 (35.98%)  | 44 / 120 (36.67%) |  |
| occurrences (all)           | 112                | 112               |  |
| Diarrhoea                   |                    |                   |  |
| subjects affected / exposed | 57 / 189 (30.16%)  | 29 / 120 (24.17%) |  |
| occurrences (all)           | 86                 | 86                |  |
| Dyspepsia                   |                    |                   |  |
| subjects affected / exposed | 37 / 189 (19.58%)  | 20 / 120 (16.67%) |  |
| occurrences (all)           | 57                 | 57                |  |

|  |                         |                         |  |
|--|-------------------------|-------------------------|--|
| Abdominal distension<br>subjects affected / exposed<br>occurrences (all)         | 37 / 189 (19.58%)<br>54 | 17 / 120 (14.17%)<br>54 |  |
| Abdominal pain upper<br>subjects affected / exposed<br>occurrences (all)         | 22 / 189 (11.64%)<br>32 | 10 / 120 (8.33%)<br>32  |  |
| Small intestinal obstruction<br>subjects affected / exposed<br>occurrences (all) | 13 / 189 (6.88%)<br>23  | 10 / 120 (8.33%)<br>23  |  |
| Ascites<br>subjects affected / exposed<br>occurrences (all)                      | 15 / 189 (7.94%)<br>21  | 6 / 120 (5.00%)<br>21   |  |
| Abdominal pain lower<br>subjects affected / exposed<br>occurrences (all)         | 13 / 189 (6.88%)<br>19  | 6 / 120 (5.00%)<br>19   |  |
| Dysphagia<br>subjects affected / exposed<br>occurrences (all)                    | 15 / 189 (7.94%)<br>18  | 3 / 120 (2.50%)<br>18   |  |
| Dry mouth<br>subjects affected / exposed<br>occurrences (all)                    | 11 / 189 (5.82%)<br>17  | 6 / 120 (5.00%)<br>17   |  |
| Oral pain<br>subjects affected / exposed<br>occurrences (all)                    | 11 / 189 (5.82%)<br>16  | 5 / 120 (4.17%)<br>16   |  |
| Flatulence<br>subjects affected / exposed<br>occurrences (all)                   | 8 / 189 (4.23%)<br>14   | 6 / 120 (5.00%)<br>14   |  |
| Respiratory, thoracic and mediastinal disorders                                  |                         |                         |  |
| Dyspnoea<br>subjects affected / exposed<br>occurrences (all)                     | 46 / 189 (24.34%)<br>55 | 9 / 120 (7.50%)<br>55   |  |
| Cough<br>subjects affected / exposed<br>occurrences (all)                        | 30 / 189 (15.87%)<br>50 | 20 / 120 (16.67%)<br>50 |  |
| Dysphonia  |                         |                         |  |

|   |                   |                   |  |
|---|-------------------|-------------------|--|
| subjects affected / exposed                 | 24 / 189 (12.70%) | 1 / 120 (0.83%)   |  |
| occurrences (all)                           | 25                | 25                |  |
| Oropharyngeal pain                          |                   |                   |  |
| subjects affected / exposed                 | 17 / 189 (8.99%)  | 4 / 120 (3.33%)   |  |
| occurrences (all)                           | 21                | 21                |  |
| Pleural effusion                            |                   |                   |  |
| subjects affected / exposed                 | 14 / 189 (7.41%)  | 4 / 120 (3.33%)   |  |
| occurrences (all)                           | 18                | 18                |  |
| Pulmonary embolism                          |                   |                   |  |
| subjects affected / exposed                 | 10 / 189 (5.29%)  | 3 / 120 (2.50%)   |  |
| occurrences (all)                           | 13                | 13                |  |
| Skin and subcutaneous tissue disorders      |                   |                   |  |
| Palmar-plantar erythrodysaesthesia syndrome |                   |                   |  |
| subjects affected / exposed                 | 72 / 189 (38.10%) | 45 / 120 (37.50%) |  |
| occurrences (all)                           | 117               | 117               |  |
| Rash  |                   |                   |  |
| subjects affected / exposed                 | 31 / 189 (16.40%) | 19 / 120 (15.83%) |  |
| occurrences (all)                           | 50                | 50                |  |
| Alopecia                                    |                   |                   |  |
| subjects affected / exposed                 | 34 / 189 (17.99%) | 8 / 120 (6.67%)   |  |
| occurrences (all)                           | 42                | 34                |  |
| Skin hyperpigmentation                      |                   |                   |  |
| subjects affected / exposed                 | 24 / 189 (12.70%) | 15 / 120 (12.50%) |  |
| occurrences (all)                           | 39                | 39                |  |
| Rash maculo-papular                         |                   |                   |  |
| subjects affected / exposed                 | 19 / 189 (10.05%) | 14 / 120 (11.67%) |  |
| occurrences (all)                           | 33                | 33                |  |
| Pruritus                                    |                   |                   |  |
| subjects affected / exposed                 | 20 / 189 (10.58%) | 12 / 120 (10.00%) |  |
| occurrences (all)                           | 32                | 32                |  |
| Dry skin                                    |                   |                   |  |
| subjects affected / exposed                 | 19 / 189 (10.05%) | 9 / 120 (7.50%)   |  |
| occurrences (all)                           | 28                | 28                |  |
| Erythema                                    |                   |                   |  |

|  |                        |                       |  |
|--|------------------------|-----------------------|--|
| subjects affected / exposed<br>occurrences (all) | 13 / 189 (6.88%)<br>20 | 7 / 120 (5.83%)<br>20 |  |
| Psychiatric disorders                            |                        |                       |  |
| Insomnia   |                        |                       |  |
| subjects affected / exposed                      | 36 / 189 (19.05%)      | 16 / 120 (13.33%)     |  |
| occurrences (all)                                | 52                     | 52                    |  |
| Anxiety  |                        |                       |  |
| subjects affected / exposed                      | 29 / 189 (15.34%)      | 8 / 120 (6.67%)       |  |
| occurrences (all)                                | 37                     | 37                    |  |
| Depression                                       |                        |                       |  |
| subjects affected / exposed                      | 24 / 189 (12.70%)      | 3 / 120 (2.50%)       |  |
| occurrences (all)                                | 27                     | 27                    |  |
| Musculoskeletal and connective tissue disorders  |                        |                       |  |
| Back pain  |                        |                       |  |
| subjects affected / exposed                      | 36 / 189 (19.05%)      | 17 / 120 (14.17%)     |  |
| occurrences (all)                                | 53                     | 53                    |  |
| Myalgia  |                        |                       |  |
| subjects affected / exposed                      | 28 / 189 (14.81%)      | 11 / 120 (9.17%)      |  |
| occurrences (all)                                | 39                     | 39                    |  |
| Muscular weakness                                |                        |                       |  |
| subjects affected / exposed                      | 31 / 189 (16.40%)      | 0 / 120 (0.00%)       |  |
| occurrences (all)                                | 31                     | 31                    |  |
| Arthralgia                                       |                        |                       |  |
| subjects affected / exposed                      | 20 / 189 (10.58%)      | 7 / 120 (5.83%)       |  |
| occurrences (all)                                | 27                     | 27                    |  |
| Pain in extremity                                |                        |                       |  |
| subjects affected / exposed                      | 14 / 189 (7.41%)       | 7 / 120 (5.83%)       |  |
| occurrences (all)                                | 21                     | 21                    |  |
| Muscle spasms                                    |                        |                       |  |
| subjects affected / exposed                      | 14 / 189 (7.41%)       | 3 / 120 (2.50%)       |  |
| occurrences (all)                                | 17                     | 17                    |  |
| Infections and infestations                      |                        |                       |  |
| Urinary tract infection                          |                        |                       |  |
| subjects affected / exposed                      | 23 / 189 (12.17%)      | 16 / 120 (13.33%)     |  |
| occurrences (all)                                | 39                     | 39                    |  |
| Upper respiratory tract infection                |                        |                       |  |

|  |                       |                       |  |
|--|-----------------------|-----------------------|--|
| subjects affected / exposed<br>occurrences (all) | 6 / 189 (3.17%)<br>12 | 6 / 120 (5.00%)<br>12 |  |
| Metabolism and nutrition disorders               |                       |                       |  |
| Decreased appetite                               |                       |                       |  |
| subjects affected / exposed                      | 84 / 189 (44.44%)     | 38 / 120 (31.67%)     |  |
| occurrences (all)                                | 122                   | 122                   |  |
| Hypomagnesaemia                                  |                       |                       |  |
| subjects affected / exposed                      | 21 / 189 (11.11%)     | 10 / 120 (8.33%)      |  |
| occurrences (all)                                | 31                    | 31                    |  |
| Hypokalaemia                                     |                       |                       |  |
| subjects affected / exposed                      | 20 / 189 (10.58%)     | 8 / 120 (6.67%)       |  |
| occurrences (all)                                | 28                    | 28                    |  |
| Dehydration                                      |                       |                       |  |
| subjects affected / exposed                      | 20 / 189 (10.58%)     | 6 / 120 (5.00%)       |  |
| occurrences (all)                                | 26                    | 26                    |  |
| Hypoalbuminaemia                                 |                       |                       |  |
| subjects affected / exposed                      | 10 / 189 (5.29%)      | 3 / 120 (2.50%)       |  |
| occurrences (all)                                | 13                    | 13                    |  |
| Hyponatraemia                                    |                       |                       |  |
| subjects affected / exposed                      | 10 / 189 (5.29%)      | 0 / 120 (0.00%)       |  |
| occurrences (all)                                | 10                    | 10                    |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date             | Amendment  |
|------------------|--|
| 10 January 2011  | Change of protocol from v1 to v3. Inclusion of section "Rationale and Justification for Quality of Life Assessments", modification of study objectives, RECIST v1.1 language added into separate appendix, addition of stratification variable based upon EC20 scan status, and modification of existing language, addition of language to section or clarification of existing language for general study design, primary and secondary endpoint definitions, analysis endpoints and populations, sample size determination, interim and final analyses and efficacy analyses.  |
| 05 February 2013 | Change of protocol from v3 to v5. Change randomization from 2:1 to 1:1, folate receptor expression status nomenclatures modified, addition of use of EuroQoL EQ-5D-3L questionnaire, modification of study objectives, addition of a 4+/- day allowance for radiographic CT assessments and clarified post-baseline assessments are determined from first dose of vintafolide/placebo and/or PLD, modified inclusion and exclusion criteria, changed stratification variable based upon baseline etarfolatide scan status, updated emergency unblinding procedure, simplified QoL data collection, and modified statistical methods (changed primary objective to PFS, added hierarchical step-down testing for PFS and OS, changed sample size in FR(100%) from 256 to 350, revised interim analysis plan). |

Notes:

### Interruptions (globally)

Were there any global interruptions to the trial? Yes

| Date           | Interruption  | Restart date  |
|----------------|---|---------------|
| 01 August 2011 | Enrollment was suspended August 2011 through April 2012 due to an interruption in the study's PLD supply. | 30 April 2012 |

Notes:

### Limitations and caveats

None reported