

**Clinical trial results:****PHASE IV.III, MULTICENTER, OPEN, RANDOMIZED TREATMENT STUDY TO EVALUATE THE EFFICACY OF MAINTENANCE THERAPY WITH CAPECITABINE (X) AFTER STANDARD ADJUVANT CHEMOTHERAPY IN PATIENTS WITH OPERABLE, HORMONE RECEPTOR AND HER2neu NEGATIVE BREAST CANCER****Summary**

|                          |                  |
|--------------------------|------------------|
| EudraCT number           | 2005-002838-36   |
| Trial protocol           | ES               |
| Global end of trial date | 17 February 2017 |

**Results information**

|                                |  |
|--------------------------------|--|
| Result version number          | v2 (current)   |
| This version publication date  | 20 March 2023  |
| First version publication date | 22 March 2020  |
| Version creation reason        | <ul style="list-style-type: none"><li>New data added to full data set</li></ul> Publication update |

**Trial information****Trial identification**

|                       |                |
|-----------------------|----------------|
| Sponsor protocol code | CIBOMA/2004-01 |
|-----------------------|----------------|

**Additional study identifiers**

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT00130533 |
| WHO universal trial number (UTN)   | -           |

Notes:

**Sponsors**

|                              |   |
|------------------------------|---|
| Sponsor organisation name    | GEICAM (FUNDACIÓN GRUPO ESPAÑOL DE INVESTIGACIÓN EN CÁNCER DE MAMA)   |
| Sponsor organisation address | Avenida de los Pirineos 7, San Sebastián de los Reyes / Madrid, Spain, 28703  |
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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                       | 17 February 2017 |
| Is this the analysis of the primary completion data? | No               |
| Global end of trial reached?                         | Yes              |
| Global end of trial date                             | 17 February 2017 |
| Was the trial ended prematurely?                     | No               |

Notes:

## General information about the trial

Main objective of the trial:

Principal objective: Compare 5-year disease-free survival after maintenance therapy with 8 cycles of capecitabine (X) compared to observation, in patients with operable, hormone receptor and HER2neu negative breast cancer who have received standard adjuvant chemotherapy

Protection of trial subjects:

Not applicable. It was not necessary to applied extra measures for protection of the subjects out of the good clinical practice environment.

Background therapy:

Early triple negative breast cancer (TNBC) can be cured with local-regional therapy plus adjuvant chemotherapy (usually anthracycline and/or taxane-based combinations). However, in spite of these therapies, a proportion of patients eventually relapses and dies. A recent analysis of data from the National Cancer Institute Surveillance, Epidemiology, and End Results (SEER) reported a 3-year relapse rate of around 8%, 15% and 40% for stages I, II and III TNBC patients, respectively.

Therefore, new adjuvant options are necessary to improve the prognosis of this breast cancer subtype. Capecitabine is an oral prodrug of 5-fluorouracil approved for the treatment of metastatic breast cancer in patients with prior progression after anthracyclines and taxanes and, therefore, is partially non-crossresistant with these two class of agents. Based on this concept, we carried out a trial in which capecitabine was sequentially added to standard (neo)adjuvant chemotherapy in operable TNBC, in order to explore the ability of the drug to reduce the rate of relapse and increase the survival of this disease.

Evidence for comparator: -

|   |                 |
|---|-----------------|
| Actual start date of recruitment                          | 26 October 2006 |
| 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 | Brazil: 139                          |
| Country: Number of subjects enrolled | Mexico: 113                          |
| Country: Number of subjects enrolled | Chile: 42                            |
| Country: Number of subjects enrolled | Peru: 19                             |
| Country: Number of subjects enrolled | Ecuador: 18                          |
| Country: Number of subjects enrolled | Colombia: 9                          |
| Country: Number of subjects enrolled | Venezuela, Bolivarian Republic of: 4 |

|                                      |            |
|--------------------------------------|------------|
| Country: Number of subjects enrolled | Spain: 532 |
| Worldwide total number of subjects   | 876        |
| EEA total number of subjects         | 532        |

Notes:

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| <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)                      | 768 |
| From 65 to 84 years                       | 108 |
| 85 years and over                         | 0   |

## Subject disposition

### Recruitment

Recruitment details:

Between October 2006 and September 2011, 876 patients were recruited, across 80 institutions in 8 countries (Spain, Brazil, Chile, Colombia, Ecuador, Mexico, Peru and Venezuela)

### Pre-assignment

Screening details:

Between October 2006 and September 2011, 876 patients were recruited, across 80 institutions in 8 countries (Spain, Brazil, Chile, Colombia, Ecuador, Mexico, Peru, and Venezuela)

### Period 1

|                              |                                |
|------------------------------|--------------------------------|
| Period 1 title               | Overall trial (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>             | Xeloda (capecitabine) |

Arm description:

1000 mgrs/m2 twice a day, tablets, 8 cycles

|  |               |
|--|---------------|
| Arm type                               | Experimental  |
| Investigational medicinal product name | Capecitabine  |
| Investigational medicinal product code |               |
| Other name                             | Xeloda        |
| Pharmaceutical forms                   | Coated tablet |
| Routes of administration               | Oral use      |

Dosage and administration details:

1000 mgrs/m2 twice a day, tablets, 8 cycles

|                  |             |
|------------------|-------------|
| <b>Arm title</b> | Observation |
|------------------|-------------|

Arm description:

Observation. No intervention.

|   |                 |
|---|-----------------|
| Arm type  | No intervention |
| No investigational medicinal product assigned in this arm |                 |

| <b>Number of subjects in period 1</b> | Xeloda (capecitabine) | Observation |
|---------------------------------------|-----------------------|-------------|
| Started                               | 448                   | 428         |
| Completed                             | 337                   | 398         |
| Not completed                         | 111                   | 30          |
| Consent withdrawn by subject          | 33                    | 6           |
| Second Primary Malignancy             | -                     | 1           |
| Interruption of treatment > 3 weeks   | 11                    | -           |
| Adverse event, non-fatal              | 34                    | 1           |
| Death                                 | 4                     | 2           |

|                    |    |    |
|--------------------|----|----|
| Not specified      | 12 | 5  |
| Disease relapse    | 9  | 13 |
| Lost to follow-up  | 1  | 1  |
| Sponsor´s decision | 2  | -  |
| Protocol deviation | 5  | 1  |

## Baseline characteristics

### Reporting groups

|   |                       |
|---|-----------------------|
| Reporting group title   | Xeloda (capecitabine) |
| Reporting group description:<br>1000 mgrs/m2 twice a day, tablets, 8 cycles |                       |
| Reporting group title   | Observation           |
| Reporting group description:<br>Observation. No intervention.               |                       |

| Reporting group values  | Xeloda<br>(capecitabine) | Observation | Total |
|---|--------------------------|-------------|-------|
| Number of subjects  | 448                      | 428         | 876   |
| Age categorical<br>Units: Subjects  |                          |             |       |
| In utero  |                          |             | 0     |
| Preterm newborn infants<br>(gestational age < 37 wks)   |                          |             | 0     |
| Newborns (0-27 days)  |                          |             | 0     |
| Infants and toddlers (28 days-23<br>months)   |                          |             | 0     |
| Children (2-11 years)   |                          |             | 0     |
| Adolescents (12-17 years)   |                          |             | 0     |
| Adults (18-64 years)  |                          |             | 0     |
| From 65-84 years  |                          |             | 0     |
| 85 years and over   |                          |             | 0     |
| Age continuous<br>Units: years  |                          |             |       |
| median  | 50                       | 49          |       |
| full range (min-max)  | 20 to 79                 | 23 to 82    | -     |
| Gender categorical<br>Units: Subjects   |                          |             |       |
| Female  | 448                      | 428         | 876   |
| Male  | 0                        | 0           | 0     |
| Race<br>Units: Subjects   |                          |             |       |
| Caucasian   | 313                      | 309         | 622   |
| Hispanic  | 107                      | 97          | 204   |
| Black   | 16                       | 11          | 27    |
| Other   | 12                       | 11          | 23    |
| Karnofsky Index Performance   |                          |             |       |
| <p>Karnofsky Scale allows patients to be classified as to their functional impairment. The lower the Karnofsky score, the worse the survival for most serious illnesses</p> <p>100: Normal, no complaints<br/>           90: Minor signs or disease symptoms<br/>           80: Normal activity with effort<br/>           70: Care for self. Unable to carry on normal activity<br/>           60: Requires occasional assistance<br/>           50: Requires considerable assistance and frequent medical care<br/>           40: Disabled. Requires special care and assistance<br/>           30: Severely disabled<br/>           20: Very sick. Active supportive treatment necessary<br/>           10: Moribund</p> |                          |             |       |

|   |     |     |     |
|---|-----|-----|-----|
| 0: Dead   |     |     |     |
| Units: Subjects   |     |     |     |
| 80  | 8   | 17  | 25  |
| 90  | 57  | 67  | 124 |
| 100   | 383 | 344 | 727 |
| Menopausal status at diagnosis  |     |     |     |
| Units: Subjects   |     |     |     |
| Premenopausal   | 136 | 140 | 276 |
| Postmenopausal  | 312 | 288 | 600 |
| Histologic type   |     |     |     |
| Units: Subjects   |     |     |     |
| Invasive ductal carcinoma   | 395 | 369 | 764 |
| Invasive lobular carcinoma  | 9   | 10  | 19  |
| Other   | 44  | 49  | 93  |
| Histologic grade  |     |     |     |
| Cancer cells are given a Grade (G) when they are removed from the breast and checked under a microscope. The G is based on how much the cancer cells look like normal cells.  |     |     |     |
| <ul style="list-style-type: none"> <li>• G1 or well differentiated (score 3, 4, or 5): cells are slower-growing, and look more like normal breast tissue.</li> <li>• G2 or moderately differentiated (score 6, 7): cells are growing at a speed of and look like cells somewhere between G1 and 3.</li> <li>• G3 or poorly differentiated (score 8, 9): cells look very different from normal and will probably grow and spread faster.</li> </ul>  |     |     |     |
| Units: Subjects   |     |     |     |
| Grade 1   | 15  | 12  | 27  |
| Grade 2   | 82  | 81  | 163 |
| Grade 3   | 323 | 299 | 622 |
| Unknown   | 28  | 36  | 64  |
| Phenotype by immunohistochemistry   |     |     |     |
| Basal phenotype: Basal-like tumors receive this name because their genetic expression profile is similar to that of a normal basal epithelial cell. These similarities include the absence of expression of the estrogen receptor and other genes related with this and the human epidermal growth factor receptor 2 (HER2) receptor. They also share with the basal epithelial cells overexpression of cytokeratins 5/6 and 17, epidermal growth factor receptor (EGFR) and genes associated with proliferation. p53 mutations in tyrosine are also basal cell characteristics.  |     |     |     |
| Units: Subjects   |     |     |     |
| Basal   | 329 | 318 | 647 |
| Non-basal   | 119 | 110 | 229 |
| Stage at diagnosis  |     |     |     |
| Measure Description: According to American Joint Committee on Cancer (AJCC) 2002:   |     |     |     |
| <ul style="list-style-type: none"> <li>• Stage (S) I: tumour &lt;2 centimetres (cm)</li> <li>• S II:<br/>S IIA: cancer spread to movable ipsilateral axillary (MIA) Lymph Nodes (LN). tumor &lt;2 cm and spread to MIA LN tumor &gt;2 cm but &gt;5 cm<br/>S IIB: tumor &gt;2 cm but &lt;5 cm and spread to MIA LN tumor &gt;5 cm</li> <li>• S III:<br/>S IIIA: cancer spread to ipsilateral axillary LN fixed or matted<br/>S IIIB: tumor spread to the chest wall or caused swelling or ulceration of the breast or is diagnosed as inflammatory breast cancer.<br/>S IIIC: metastases in ipsilateral infraclavicular LN.</li> </ul> |     |     |     |
| Units: Subjects   |     |     |     |
| Stage I   | 62  | 74  | 136 |
| Stage II  | 270 | 271 | 541 |
| Stage III   | 106 | 80  | 186 |
| Unknown   | 10  | 3   | 13  |
| Nodal status  |     |     |     |
| Units: Subjects   |     |     |     |

|  |     |     |     |
|--|-----|-----|-----|
| Negative                                     | 244 | 242 | 486 |
| 1-3 positive nodes                           | 121 | 124 | 245 |
| ≥4 positive nodes                            | 77  | 61  | 138 |
| Missing data                                 | 6   | 1   | 7   |
| Type of prior Chemotherapy                   |     |     |     |
| Units: Subjects                              |     |     |     |
| Adjuvant only                                | 353 | 352 | 705 |
| Neoadjuvant only                             | 70  | 64  | 134 |
| Neoadjuvant + Adjuvant                       | 19  | 11  | 30  |
| Missing data                                 | 6   | 1   | 7   |
| Chemotherapy regimens                        |     |     |     |
| Units: Subjects                              |     |     |     |
| Anthracyclines without Taxanes               | 147 | 138 | 285 |
| Anthracyclines and Taxanes                   | 301 | 290 | 591 |
| Breast surgery                               |     |     |     |
| Units: Subjects                              |     |     |     |
| Conservative                                 | 237 | 242 | 479 |
| Mastectomy                                   | 205 | 185 | 390 |
| Missing data                                 | 6   | 1   | 7   |
| Axillary surgery                             |     |     |     |
| Units: Subjects                              |     |     |     |
| Lymphadenectomy                              | 321 | 280 | 601 |
| Sentinel lymph node biopsy                   | 99  | 122 | 221 |
| Lymphadenectomy + Sentinel lymph node biopsy | 28  | 26  | 54  |
| Radiation therapy                            |     |     |     |
| Units: Subjects                              |     |     |     |
| Yes  | 352 | 346 | 698 |
| No   | 91  | 81  | 172 |
| Unknown                                      | 5   | 1   | 6   |

## End points

### End points reporting groups

|                              |   |
|------------------------------|---|
| Reporting group title        | Xeloda (capecitabine)                       |
| Reporting group description: | 1000 mgrs/m2 twice a day, tablets, 8 cycles |
| Reporting group title        | Observation                                 |
| Reporting group description: | Observation. No intervention.               |

### Primary: Disease Free Survival (DFS)

|                        |   |
|------------------------|---|
| End point title        | Disease Free Survival (DFS)   |
| End point description: | DFS was measured from the date of randomization assignment in the intent to treat (ITT) population to loco-regional or distant recurrence, second primary malignancy or death date, whichever occurred first. |
| End point type         | Primary   |
| End point timeframe:   | 5 years   |

| End point values            | Xeloda (capecitabine) | Observation     |  |  |
|-----------------------------|-----------------------|-----------------|--|--|
| Subject group type          | Reporting group       | Reporting group |  |  |
| Number of subjects analysed | 448                   | 428             |  |  |
| Units: Survival probability | 105                   | 120             |  |  |

### Statistical analyses

|   |                                     |
|---|-------------------------------------|
| Statistical analysis title              | Cox's proportional Hazard Ratio     |
| Comparison groups                       | Xeloda (capecitabine) v Observation |
| Number of subjects included in analysis | 876                                 |
| Analysis specification                  | Pre-specified                       |
| Analysis type                           | non-inferiority                     |
| P-value                                 | = 0.136                             |
| Method                                  | Regression, Cox                     |
| Parameter estimate                      | Cox proportional hazard             |
| Point estimate                          | 0.82                                |
| Confidence interval                     |                                     |
| level                                   | 95 %                                |
| sides                                   | 2-sided                             |
| lower limit                             | 0.63                                |
| upper limit                             | 1.06                                |
| Variability estimate                    | Standard deviation                  |

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**Secondary: Overall Survival (OS)**

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|                 |                       |
|-----------------|-----------------------|
| End point title | Overall Survival (OS) |
|-----------------|-----------------------|

End point description:

OS event is defined as the death from any cause.

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

End point timeframe:

5 years

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| <b>End point values</b>     | Xeloda<br>(capecitabine) | Observation     |  |  |
|-----------------------------|--------------------------|-----------------|--|--|
| Subject group type          | Reporting group          | Reporting group |  |  |
| Number of subjects analysed | 448                      | 428             |  |  |
| Units: Deaths               | 71                       | 73              |  |  |

**Statistical analyses**

|   |                                     |
|---|-------------------------------------|
| <b>Statistical analysis title</b>       | Cox's proportional Hazard Ratio     |
| Comparison groups                       | Xeloda (capecitabine) v Observation |
| Number of subjects included in analysis | 876                                 |
| Analysis specification                  | Pre-specified                       |
| Analysis type                           | non-inferiority                     |
| P-value                                 | = 0.623                             |
| Method                                  | Regression, Cox                     |
| Parameter estimate                      | Cox proportional hazard             |
| Point estimate                          | 0.92                                |
| Confidence interval                     |                                     |
| level                                   | 95 %                                |
| sides                                   | 2-sided                             |
| lower limit                             | 0.66                                |
| upper limit                             | 1.28                                |
| Variability estimate                    | Standard deviation                  |

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**Secondary: Disease Free Survival (DFS) by Basal Phenotype**

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|                 |  |
|-----------------|--|
| End point title | Disease Free Survival (DFS) by Basal Phenotype |
|-----------------|--|

End point description:

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

End point timeframe:

5 years

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| <b>End point values</b>     | Xeloda<br>(capecitabine) | Observation     |  |  |
|-----------------------------|--------------------------|-----------------|--|--|
| Subject group type          | Reporting group          | Reporting group |  |  |
| Number of subjects analysed | 329                      | 318             |  |  |
| Units: Events               | 84                       | 86              |  |  |

### Statistical analyses

|   |                                     |
|---|-------------------------------------|
| <b>Statistical analysis title</b>       | Cox's Hazard Ratio                  |
| Comparison groups                       | Xeloda (capecitabine) v Observation |
| Number of subjects included in analysis | 647                                 |
| Analysis specification                  | Pre-specified                       |
| Analysis type                           | non-inferiority                     |
| P-value                                 | = 0.6955                            |
| Method                                  | Regression, Cox                     |
| Parameter estimate                      | Cox proportional hazard             |
| Point estimate                          | 0.94                                |
| Confidence interval                     |                                     |
| level                                   | 95 %                                |
| sides                                   | 2-sided                             |
| lower limit                             | 0.7                                 |
| upper limit                             | 1.27                                |
| Variability estimate                    | Standard deviation                  |

### Secondary: Disease Free Survival (DFS) by Non-Basal Phenotype

|                        |  |
|------------------------|--|
| End point title        | Disease Free Survival (DFS) by Non-Basal Phenotype |
| End point description: |  |
| End point type         | Secondary  |
| End point timeframe:   |  |
| 5 years                |  |

| <b>End point values</b>     | Xeloda<br>(capecitabine) | Observation     |  |  |
|-----------------------------|--------------------------|-----------------|--|--|
| Subject group type          | Reporting group          | Reporting group |  |  |
| Number of subjects analysed | 119                      | 110             |  |  |
| Units: Events               | 21                       | 34              |  |  |

## Statistical analyses

|   |                                     |
|---|-------------------------------------|
| <b>Statistical analysis title</b>       | Cox's proportional Hazard Ratio     |
| Comparison groups                       | Xeloda (capecitabine) v Observation |
| Number of subjects included in analysis | 229                                 |
| Analysis specification                  | Pre-specified                       |
| Analysis type                           | non-inferiority                     |
| P-value                                 | = 0.0221                            |
| Method                                  | Regression, Cox                     |
| Parameter estimate                      | Cox proportional hazard             |
| Point estimate                          | 0.53                                |
| Confidence interval                     |                                     |
| level                                   | 95 %                                |
| sides                                   | 2-sided                             |
| lower limit                             | 0.31                                |
| upper limit                             | 0.91                                |
| Variability estimate                    | Standard deviation                  |

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

Adverse Events (AEs) and Serious Adverse Events (SAEs) were recorded from the date informed consent was signed, during treatment period, and for up to 30 days after the end of treatment.

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

### Dictionary used

|                    |         |
|--------------------|---------|
| Dictionary name    | NCI-CTC |
| Dictionary version | 3.0     |

### Reporting groups

|                       |             |
|-----------------------|-------------|
| Reporting group title | Observation |
|-----------------------|-------------|

Reporting group description: -

|                       |                       |
|-----------------------|-----------------------|
| Reporting group title | Xeloda (capecitabine) |
|-----------------------|-----------------------|

Reporting group description: -

| <b>Serious adverse events</b>                           | Observation     | Xeloda<br>(capecitabine) |  |
|---|-----------------|--------------------------|--|
| Total subjects affected by serious adverse events       |                 |                          |  |
| subjects affected / exposed                             | 6 / 425 (1.41%) | 23 / 436 (5.28%)         |  |
| number of deaths (all causes)                           | 73              | 73                       |  |
| number of deaths resulting from adverse events          | 2               | 5                        |  |
| Vascular disorders                                      |                 |                          |  |
| Thrombosis/thrombus/embolism:<br>venous thrombosis      |                 |                          |  |
| subjects affected / exposed                             | 0 / 425 (0.00%) | 1 / 436 (0.23%)          |  |
| occurrences causally related to<br>treatment / all      | 0 / 0           | 1 / 1                    |  |
| deaths causally related to<br>treatment / all           | 0 / 0           | 0 / 0                    |  |
| Surgical and medical procedures                         |                 |                          |  |
| Axillar node dissection                                 |                 |                          |  |
| subjects affected / exposed                             | 0 / 425 (0.00%) | 1 / 436 (0.23%)          |  |
| occurrences causally related to<br>treatment / all      | 0 / 0           | 0 / 1                    |  |
| deaths causally related to<br>treatment / all           | 0 / 0           | 0 / 0                    |  |
| General disorders and administration<br>site conditions |                 |                          |  |
| Diarrhea + Vomiting + Septic shock                      |                 |                          |  |
| subjects affected / exposed                             | 0 / 425 (0.00%) | 1 / 436 (0.23%)          |  |
| occurrences causally related to<br>treatment / all      | 0 / 0           | 1 / 1                    |  |
| deaths causally related to<br>treatment / all           | 0 / 0           | 1 / 1                    |  |
| Gastroenteritis and renal insufficiency                 |                 |                          |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 425 (0.00%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Thoracic pain                                   |                 |                 |  |
| subjects affected / exposed                     | 1 / 425 (0.24%) | 0 / 436 (0.00%) |  |
| occurrences causally related to treatment / all | 1 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Thorax and left arm pain                        |                 |                 |  |
| subjects affected / exposed                     | 0 / 425 (0.00%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pregnancy                                       |                 |                 |  |
| subjects affected / exposed                     | 1 / 425 (0.24%) | 0 / 436 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Cardiac disorders                               |                 |                 |  |
| Supraventricular arrhythmia NOS                 |                 |                 |  |
| subjects affected / exposed                     | 0 / 425 (0.00%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Coronary vasospasm                              |                 |                 |  |
| subjects affected / exposed                     | 0 / 425 (0.00%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Heart failure                                   |                 |                 |  |
| subjects affected / exposed                     | 1 / 425 (0.24%) | 0 / 436 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Cardiac ischemia/infarction                     |                 |                 |  |
| subjects affected / exposed                     | 1 / 425 (0.24%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 1           | 0 / 0           |  |
| Nervous system disorders                        |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| CNS cerebrovascular ischemia                    |                 |                 |  |
| subjects affected / exposed                     | 0 / 425 (0.00%) | 2 / 436 (0.46%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 2           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 2           |  |
| Worsening of depressive syndrome                |                 |                 |  |
| subjects affected / exposed                     | 0 / 425 (0.00%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 1           |  |
| Blood and lymphatic system disorders            |                 |                 |  |
| Neutropenia + Leucopenia                        |                 |                 |  |
| subjects affected / exposed                     | 0 / 425 (0.00%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Gastrointestinal disorders                      |                 |                 |  |
| Dehydration                                     |                 |                 |  |
| subjects affected / exposed                     | 0 / 425 (0.00%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Diarrhea  |                 |                 |  |
| subjects affected / exposed                     | 0 / 425 (0.00%) | 4 / 436 (0.92%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 4 / 4           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Ulcer gastric                                   |                 |                 |  |
| subjects affected / exposed                     | 0 / 425 (0.00%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Mucositis Oral cavity and Pharynx               |                 |                 |  |
| subjects affected / exposed                     | 0 / 425 (0.00%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Hepatobiliary disorders                         |                 |                 |  |
| Pancreatitis                                    |                 |                 |  |

|  |                 |                 |  |
|--|-----------------|-----------------|--|
| subjects affected / exposed                            | 0 / 425 (0.00%) | 2 / 436 (0.46%) |  |
| occurrences causally related to treatment / all        | 0 / 0           | 0 / 2           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Skin and subcutaneous tissue disorders</b>          |                 |                 |  |
| Rash: hand-foot skin reaction                          |                 |                 |  |
| subjects affected / exposed                            | 0 / 425 (0.00%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all        | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Renal and urinary disorders</b>                     |                 |                 |  |
| Right renal colic                                      |                 |                 |  |
| subjects affected / exposed                            | 0 / 425 (0.00%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all        | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Musculoskeletal and connective tissue disorders</b> |                 |                 |  |
| Showed lumbar column fracture(L4)                      |                 |                 |  |
| subjects affected / exposed                            | 1 / 425 (0.24%) | 0 / 436 (0.00%) |  |
| occurrences causally related to treatment / all        | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Infections and infestations</b>                     |                 |                 |  |
| Pneumonia  |                 |                 |  |
| subjects affected / exposed                            | 1 / 425 (0.24%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all        | 0 / 1           | 1 / 1           |  |
| deaths causally related to treatment / all             | 0 / 1           | 0 / 0           |  |
| Febrile neutropenia                                    |                 |                 |  |
| subjects affected / exposed                            | 0 / 425 (0.00%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all        | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| Infection with normal ANC (Urinary)                    |                 |                 |  |
| subjects affected / exposed                            | 0 / 425 (0.00%) | 1 / 436 (0.23%) |  |
| occurrences causally related to treatment / all        | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Metabolism and nutrition disorders</b>              |                 |                 |  |
| hyperbilirrubinemia                                    |                 |                 |  |

|   |                 |                 |
|---|-----------------|-----------------|
| subjects affected / exposed                     | 0 / 425 (0.00%) | 1 / 436 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0           | 1 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 1 / 1           |

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

| <b>Non-serious adverse events</b>                     | Observation        | Xeloda<br>(capecitabine) |  |
|---|--------------------|--------------------------|--|
| Total subjects affected by non-serious adverse events |                    |                          |  |
| subjects affected / exposed                           | 271 / 425 (63.76%) | 416 / 436 (95.41%)       |  |
| Cardiac disorders                                     |                    |                          |  |
| Any Cardiac event                                     |                    |                          |  |
| subjects affected / exposed                           | 4 / 425 (0.94%)    | 5 / 436 (1.15%)          |  |
| occurrences (all)                                     | 4                  | 5                        |  |
| Nervous system disorders                              |                    |                          |  |
| NEUROPATHY: SENSORY                                   |                    |                          |  |
| subjects affected / exposed                           | 25 / 425 (5.88%)   | 66 / 436 (15.14%)        |  |
| occurrences (all)                                     | 25                 | 66                       |  |
| General disorders and administration site conditions  |                    |                          |  |
| Abdominal pain, general                               |                    |                          |  |
| subjects affected / exposed                           | 1 / 425 (0.24%)    | 27 / 436 (6.19%)         |  |
| occurrences (all)                                     | 1                  | 27                       |  |
| Fatigue   |                    |                          |  |
| subjects affected / exposed                           | 48 / 425 (11.29%)  | 172 / 436 (39.45%)       |  |
| occurrences (all)                                     | 48                 | 172                      |  |
| PAIN: MUSCULOSKELETAL: JOINT                          |                    |                          |  |
| subjects affected / exposed                           | 29 / 425 (6.82%)   | 54 / 436 (12.39%)        |  |
| occurrences (all)                                     | 29                 | 54                       |  |
| PAIN: MUSCULOSKELETAL: MUSCLE                         |                    |                          |  |
| subjects affected / exposed                           | 9 / 425 (2.12%)    | 39 / 436 (8.94%)         |  |
| occurrences (all)                                     | 9                  | 39                       |  |
| PAIN: NEUROLOGY:<br>HEAD/HEADACHE                     |                    |                          |  |
| subjects affected / exposed                           | 7 / 425 (1.65%)    | 43 / 436 (9.86%)         |  |
| occurrences (all)                                     | 7                  | 43                       |  |
| Blood and lymphatic system disorders                  |                    |                          |  |

|   |                         |                           |  |
|---|-------------------------|---------------------------|--|
| Hemoglobin<br>subjects affected / exposed<br>occurrences (all)                | 27 / 425 (6.35%)<br>27  | 107 / 436 (24.54%)<br>107 |  |
| Hyperbilirubinemia<br>subjects affected / exposed<br>occurrences (all)        | 2 / 425 (0.47%)<br>2    | 52 / 436 (11.93%)<br>52   |  |
| Leucocytes (total WBC)<br>subjects affected / exposed<br>occurrences (all)    | 58 / 425 (13.65%)<br>58 | 136 / 436 (31.19%)<br>136 |  |
| Lymphopenia<br>subjects affected / exposed<br>occurrences (all)               | 33 / 425 (7.76%)<br>33  | 63 / 436 (14.45%)<br>63   |  |
| Neutrophils/ Granulocytes<br>subjects affected / exposed<br>occurrences (all) | 46 / 425 (10.82%)<br>46 | 125 / 436 (28.67%)<br>125 |  |
| Thrombocytopenia<br>subjects affected / exposed<br>occurrences (all)          | 8 / 425 (1.88%)<br>8    | 22 / 436 (5.05%)<br>22    |  |
| Gastrointestinal disorders  |                         |                           |  |
| Diarrhea<br>subjects affected / exposed<br>occurrences (all)                  | 6 / 425 (1.41%)<br>6    | 154 / 436 (35.32%)<br>154 |  |
| HEARTBURN/DYSPEPSIA<br>subjects affected / exposed<br>occurrences (all)       | 5 / 425 (1.18%)<br>5    | 53 / 436 (12.16%)<br>53   |  |
| Nausea<br>subjects affected / exposed<br>occurrences (all)                    | 6 / 425 (1.41%)<br>6    | 103 / 436 (23.62%)<br>103 |  |
| Vomiting<br>subjects affected / exposed<br>occurrences (all)                  | 2 / 425 (0.47%)<br>2    | 45 / 436 (10.32%)<br>45   |  |
| Reproductive system and breast disorders                                      |                         |                           |  |
| Irregular menses<br>subjects affected / exposed<br>occurrences (all)          | 67 / 425 (15.76%)<br>67 | 69 / 436 (15.83%)<br>69   |  |
| Skin and subcutaneous tissue disorders  |                         |                           |  |

|   |                        |                           |  |
|---|------------------------|---------------------------|--|
| Hand and foot syndrome<br>subjects affected / exposed<br>occurrences (all)  | 3 / 425 (0.71%)<br>3   | 306 / 436 (70.18%)<br>306 |  |
| NAIL CHANGES<br>subjects affected / exposed<br>occurrences (all)            | 3 / 425 (0.71%)<br>3   | 42 / 436 (9.63%)<br>42    |  |
| Metabolism and nutrition disorders  |                        |                           |  |
| ALKALINE PHOSPHATASE<br>subjects affected / exposed<br>occurrences (all)    | 30 / 425 (7.06%)<br>30 | 63 / 436 (14.45%)<br>63   |  |
| ALT, SGPT<br>subjects affected / exposed<br>occurrences (all)               | 28 / 425 (6.59%)<br>28 | 85 / 436 (19.50%)<br>85   |  |
| AST, SGOT<br>subjects affected / exposed<br>occurrences (all)               | 23 / 425 (5.41%)<br>23 | 83 / 436 (19.04%)<br>83   |  |
| CHOLESTEROL, SERUM-HIGH<br>subjects affected / exposed<br>occurrences (all) | 35 / 425 (8.24%)<br>35 | 34 / 436 (7.80%)<br>34    |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date              | Amendment  |
|-------------------|--|
| 29 June 2007      | <p>This protocol amendment included the following changes:</p> <p>To allow the inclusion of patients treated with previous neoadjuvant chemotherapy. On that date, the clinical trials published did not show inferior results with neoadjuvant treatment compared to the adjuvant one. In addition, a meta-analysis showed that the comparison of both therapies did not have differences in terms of DFS and OS. In regards to it, to consider the absence of a biological reason justifying different efficacy results of the same regimen administered before or after the breast surgery was thought to be critical. All these considerations were taken into account to allow the inclusion of this subgroup of patients on the study.</p> <p>To allow the administration of 4 cycles of adriamycin and cyclophosphamide (AC) as chemotherapy for patients without axillary lymph node involvement. At that moment of time, in some countries of Latin America participating on the study, the treatment of this type of patients (considered to have an intermediate risk) included 6 cycles of CMF (cyclophosphamide, methotrexate, 5-fluorouracil) regimen or 4 cycles of AC regimen as per local clinical guidelines. With this consideration, patients without axillary lymph node involvement were allowed to be enrolled on the study.</p> <p>Grammatical mistakes were corrected, some administrative data were updated and there was an increase in the number of study sites with 2 new sites (Hospital General Yagüe in Burgos and Hospital Infanta Luisa in Seville, both in Spain).</p>   |
| 16 September 2009 | <p>This protocol amendment was made to re-calculate the sample size of the study based on the results of the FinXX trial presented by Joensuu H. et al, at San Antonio Breast Cancer Symposium in 2008.</p> <p>The Finnish group showed the initial results from a clinical trial in adjuvant setting that evaluated the addition of capecitabine to the combination chemotherapy with epirubicin, cyclophosphamide and docetaxel. These results showed a statistically significant difference in terms of DFS and distant DFS in favor of the addition of capecitabine. The Hazard Ratio was of 0.66 showing an advantage of 34%. Patient population on this study included patients with positive or negative regional lymph node involvement, and tumor size &gt; 2 cm. An estimated comparative analysis of the risk of recurrence indicated that patients on CIBOMA study had a higher risk of recurrence.</p> <p>Additionally, an exploratory subgroup analysis already presented at San Antonio Breast Cancer Symposium in 2008, showed that patients with HER2-negative tumors (not all of them triple negative), had a relevant benefit with the addition of capecitabine. We thought that at least a good proportion of patients on CIBOMA study could have better outcomes with the addition of adjuvant capecitabine.</p> <p>Our initial proposal estimated a benefit of 25% with the addition of capecitabine compared to observation; this required the inclusion of approximately 1,324 patients. When adjusting the potential benefit expected to 30% with a drop-out rate of 5%, the number of patients necessary to reach a possible positive result of the study was of 876.</p> <p>These data were obtained from the database of the "El Alamo" project (Project "The Alamo III". ISBN: 84-938762-5-9. Legal deposit: M-36626-2013). One thousand six hundred and twenty-seven (1,627) in total were considered during the years from 1990 to 1997. The population was formed of patients with operable breast cancer, with surgery, positive nodes, and negative hormone receptors, or ne</p> |

Notes:

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## **Interruptions (globally)**

Were there any global interruptions to the trial? No

## **Limitations and caveats**

None reported

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## **Online references**

<http://www.ncbi.nlm.nih.gov/pubmed/31804894>

<http://www.ncbi.nlm.nih.gov/pubmed/33397968>

<http://www.ncbi.nlm.nih.gov/pubmed/36346687>

<http://www.ncbi.nlm.nih.gov/pubmed/35279130>