



## Clinical trial results:

**Multicenter, open-label, randomized, controlled parallel-group study to assess discontinuation rates, bleeding patterns, user satisfaction and adverse event profile of LCS12 in comparison to etonogestrel subdermal implant over 12 months of use in women 18 to 35 years of age**

### Summary

|                          |                |
|--------------------------|----------------|
| EudraCT number           | 2010-023911-32 |
| Trial protocol           | SE FI GB NO    |
| Global end of trial date | 30 April 2015  |

### Results information

|                                |             |
|--------------------------------|-------------|
| Result version number          | v1          |
| This version publication date  | 12 May 2016 |
| First version publication date | 12 May 2016 |

### Trial information

#### Trial identification

|                       |                  |
|-----------------------|------------------|
| Sponsor protocol code | BAY86-5028/13363 |
|-----------------------|------------------|

#### Additional study identifiers

|                                    |             |
|------------------------------------|-------------|
| ISRCTN number                      | -           |
| ClinicalTrials.gov id (NCT number) | NCT01397097 |
| WHO universal trial number (UTN)   | -           |

Notes:

### Sponsors

|                              |   |
|------------------------------|---|
| Sponsor organisation name    | Bayer HealthCare AG   |
| Sponsor organisation address | Kaiser-Wilhelm-Allee, Leverkusen, D-51368, Germany,                                     |
| Public contact               | Therapeutic Area Head, Bayer HealthCare AG, clinical-trials-contact@bayerhealthcare.com |
| Scientific contact           | Therapeutic Area Head, Bayer HealthCare AG, clinical-trials-contact@bayerhealthcare.com |

Notes:

### Paediatric regulatory details

|  |    |
|--|----|
| Is trial part of an agreed paediatric investigation plan (PIP)       | No |
| Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial? | No |
| Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial? | No |

Notes:

## Results analysis stage

|  |               |
|--|---------------|
| Analysis stage                                       | Final         |
| Date of interim/final analysis                       | 30 April 2015 |
| Is this the analysis of the primary completion data? | No            |
| Global end of trial reached?                         | Yes           |
| Global end of trial date                             | 30 April 2015 |
| Was the trial ended prematurely?                     | No            |

Notes:

## General information about the trial

Main objective of the trial:

The primary objective was to demonstrate that discontinuation rates in women (ages 18-35 years inclusive) using Levonorgestrel intrauterine delivery system with 12 microgram levonorgestrel per day initial in vitro release rate (LCS12) were not higher than those seen in women using Etonogestrel (ENG) subdermal implant over a period of 12 months. The objective of the 2year extension phase was to evaluate safety of LCS12 during the intended duration of use, that is, for up to 3 years.

Protection of trial subjects:

The conduct of this clinical study met all local legal and regulatory requirements. The study was conducted in accordance with the ethical principles that have their origin in the Declaration of Helsinki and the International Conference on Harmonization guideline E6: Good Clinical Practice. Before entering the study, the informed consent form was read by and explained to all subjects and/or their legally authorized representative. Participating subjects signed informed consent form and could withdraw from the study at any time without any disadvantage and without having to provide a reason for this decision. Only investigators qualified by training and experience were selected as appropriate experts to investigate the study drug.

Background therapy: -

Evidence for comparator: -

|   |                   |
|---|-------------------|
| Actual start date of recruitment                          | 15 September 2011 |
| Long term follow-up planned                               | Yes               |
| Long term follow-up rationale                             | Safety            |
| Long term follow-up duration                              | 2 Years           |
| Independent data monitoring committee (IDMC) involvement? | No                |

Notes:

## Population of trial subjects

### Subjects enrolled per country

|                                      |                    |
|--------------------------------------|--------------------|
| Country: Number of subjects enrolled | Norway: 148        |
| Country: Number of subjects enrolled | Sweden: 124        |
| Country: Number of subjects enrolled | United Kingdom: 25 |
| Country: Number of subjects enrolled | Finland: 362       |
| Country: Number of subjects enrolled | France: 67         |
| Country: Number of subjects enrolled | Australia: 40      |
| Worldwide total number of subjects   | 766                |
| EEA total number of subjects         | 726                |

Notes:

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**Subjects enrolled per age group**

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|   |     |
|---|-----|
| 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)                      | 766 |
| From 65 to 84 years                       | 0   |
| 85 years and over                         | 0   |

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## Subject disposition

### Recruitment

Recruitment details:

Study was conducted at 38 study centers in 6 countries Sweden, Finland, France, United Kingdom, Norway, and Australia, between 15 September 2011 (first subject first visit) and 30 April 2015 (last subject last visit).

### Pre-assignment

Screening details:

Overall 952 subjects were screened, of them 766 enrolled and randomized to treatment LCS12 group (385) or ENG implant group (381) in 1-year comparative treatment phase. Of the 382 subjects assigned to LCS12 treatment in the first year, 283 subjects entered the optional 2-year extension phase.

### Period 1

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

### Arms

|                              |                    |
|------------------------------|--------------------|
| Are arms mutually exclusive? | No                 |
| <b>Arm title</b>             | LCS12 (BAY86-5028) |

Arm description:

Subjects received LCS12 for 12 months with an optional extension phase for further 24 months.

|  |                              |
|--|------------------------------|
| Arm type                               | Experimental                 |
| Investigational medicinal product name | Levonorgestrel (LNG)         |
| Investigational medicinal product code |                              |
| Other name                             |                              |
| Pharmaceutical forms                   | Intrauterine delivery system |
| Routes of administration               | Intrauterine use             |

Dosage and administration details:

Subjects received LCS12 for 12 months with an optional extension phase for further 24 months.

|                  |                    |
|------------------|--------------------|
| <b>Arm title</b> | Etonogestrel (ENG) |
|------------------|--------------------|

Arm description:

Subjects received 68 mg etonogestrel implant for subdermal use at initial release rate 60 – 70 mcg/day for 12 months with an optional extension phase for further 24 months under standard care.

|  |                    |
|--|--------------------|
| Arm type                               | Experimental       |
| Investigational medicinal product name | Etonogestrel (ENG) |
| Investigational medicinal product code |                    |
| Other name                             |                    |
| Pharmaceutical forms                   | Implant            |
| Routes of administration               | Subdermal use      |

Dosage and administration details:

Subjects received 68 mg etonogestrel implant for subdermal use at initial release rate 60 – 70 mcg/day for 12 months with an optional extension phase for further 24 months under standard care.

| <b>Number of subjects in period 1</b> | LCS12 (BAY86-5028) | Etonogestrel (ENG) |
|---------------------------------------|--------------------|--------------------|
| Started                               | 385                | 381                |
| Treated                               | 381                | 381                |
| Completed                             | 304                | 279                |
| Not completed                         | 81                 | 102                |
| Insertion failure                     | 4                  | -                  |
| Consent withdrawn by subject          | 5                  | 4                  |
| Protocol violation                    | 1                  | -                  |
| Wish for pregnancy                    | 3                  | 4                  |
| Death                                 | 1                  | -                  |
| Other                                 | -                  | 1                  |
| Pregnancy                             | 3                  | -                  |
| Adverse event                         | 54                 | 83                 |
| Lost to follow-up                     | 10                 | 10                 |

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## Period 2

|                              |                 |
|------------------------------|-----------------|
| Period 2 title               | Extension phase |
| Is this the baseline period? | No              |
| Allocation method            | Not applicable  |
| Blinding used                | Not blinded     |

## Arms

|   |                              |
|---|------------------------------|
| <b>Arm title</b>  | LCS12 (BAY86-5028)           |
| Arm description:  |                              |
| Subjects received LCS12 for 12 months with an optional extension phase for further 24 months. |                              |
| Arm type  | Experimental                 |
| Investigational medicinal product name  | Levonorgestrel (LNG)         |
| Investigational medicinal product code  |                              |
| Other name  |                              |
| Pharmaceutical forms  | Intrauterine delivery system |
| Routes of administration  | Intrauterine use             |

### Dosage and administration details:

Subjects received LCS12 for 12 months with an optional extension phase for further 24 months.

| <b>Number of subjects in period 2</b> | LCS12 (BAY86-5028) |
|---------------------------------------|--------------------|
| Started                               | 283                |
| Completed                             | 199                |
| Not completed                         | 84                 |
| Consent withdrawn by subject          | 10                 |
| Wish for pregnancy                    | 18                 |
| Other                                 | 9                  |
| Pregnancy                             | 1                  |
| Adverse event                         | 41                 |
| Lost to follow-up                     | 5                  |

## Baseline characteristics

### Reporting groups

|                       |                    |
|-----------------------|--------------------|
| Reporting group title | LCS12 (BAY86-5028) |
|-----------------------|--------------------|

Reporting group description:

Subjects received LCS12 for 12 months with an optional extension phase for further 24 months.

|                       |                    |
|-----------------------|--------------------|
| Reporting group title | Etonogestrel (ENG) |
|-----------------------|--------------------|

Reporting group description:

Subjects received 68 mg etonogestrel implant for subdermal use at initial release rate 60 – 70 mcg/day for 12 months with an optional extension phase for further 24 months under standard care.

| Reporting group values                | LCS12 (BAY86-5028) | Etonogestrel (ENG) | Total |
|---------------------------------------|--------------------|--------------------|-------|
| Number of subjects                    | 385                | 381                | 766   |
| Age categorical<br>Units: Subjects    |                    |                    |       |
| Adults (18-64 years)                  | 385                | 381                | 766   |
| Gender categorical<br>Units: Subjects |                    |                    |       |
| Female                                | 385                | 381                | 766   |

## End points

### End points reporting groups

|  |   |
|--|---|
| Reporting group title  | LCS12 (BAY86-5028)                        |
| Reporting group description:<br>Subjects received LCS12 for 12 months with an optional extension phase for further 24 months.  |   |
| Reporting group title  | Etonogestrel (ENG)                        |
| Reporting group description:<br>Subjects received 68 mg etonogestrel implant for subdermal use at initial release rate 60 – 70 mcg/day for 12 months with an optional extension phase for further 24 months under standard care. |   |
| Reporting group title  | LCS12 (BAY86-5028)                        |
| Reporting group description:<br>Subjects received LCS12 for 12 months with an optional extension phase for further 24 months.  |   |
| Subject analysis set title   | Safety analysis set (SAF) Treatment Phase |
| Subject analysis set type  | Safety analysis                           |
| Subject analysis set description:<br>SAF included all subjects who had successful or unsuccessful attempt of LCS12 or ENG sub-dermal implant insertion.  |   |
| Subject analysis set title   | Safety analysis set (SAF) - Overall Study |
| Subject analysis set type  | Safety analysis                           |
| Subject analysis set description:<br>SAF included subjects who attempted at least one successful or unsuccessful insertion of LCS12 during the overall study.  |   |
| Subject analysis set title   | Full analysis set (FAS)-Treatment Phase   |
| Subject analysis set type  | Full analysis                             |
| Subject analysis set description:<br>FAS included all randomized subjects who received treatment (had a successful LCS12/ENG sub-dermal implant insertion).  |   |
| Subject analysis set title   | Full analysis set (FAS) - Overall Study   |
| Subject analysis set type  | Full analysis                             |
| Subject analysis set description:<br>FAS included all randomized subjects who received treatment (i.e., had a successful LCS12 insertion) during overall study.  |   |
| Subject analysis set title   | LCS12                                     |
| Subject analysis set type  | Sub-group analysis                        |
| Subject analysis set description:<br>Subjects received LCS12 for 36 months.  |   |
| Subject analysis set title   | ENG – Treatment Phase                     |
| Subject analysis set type  | Sub-group analysis                        |
| Subject analysis set description:<br>Subjects received 68 mg ENG implant for subdermal use at initial release rate 60 – 70 mcg/day for 12 months.  |   |
| Subject analysis set title   | LCS12 – Treatment phase 1 Year            |
| Subject analysis set type  | Sub-group analysis                        |
| Subject analysis set description:<br>Subjects received LCS12 for until end of first year of treatment.   |   |
| Subject analysis set title   | LCS12 – Treatment phase 2 Year            |
| Subject analysis set type  | Sub-group analysis                        |
| Subject analysis set description:<br>Subjects received LCS12 from start of 2nd year until end of 2nd year.   |   |
| Subject analysis set title   | LCS12 – Treatment phase 3 Year            |
| Subject analysis set type  | Sub-group analysis                        |

Subject analysis set description:

Subjects received LCS12 from start of 3rd year until end of 3rd year.

### Primary: Discontinuation Rate at 12 Month

End point title | Discontinuation Rate at 12 Month<sup>[1]</sup>

End point description:

Discontinuation rate was the number and percentage of subjects who discontinued the study drug during the 12-month comparative treatment phase.

End point type | Primary

End point timeframe:

Month 12

Notes:

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

Justification: Descriptive statistics were done, no inferential statistical analyses were performed.

| End point values              | LCS12 (BAY86-5028) | Etonogestrel (ENG) |  |  |
|-------------------------------|--------------------|--------------------|--|--|
| Subject group type            | Reporting group    | Reporting group    |  |  |
| Number of subjects analysed   | 378 <sup>[2]</sup> | 381 <sup>[3]</sup> |  |  |
| Units: Percentage of subjects |                    |                    |  |  |
| number (not applicable)       | 19.58              | 26.77              |  |  |

Notes:

[2] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

[3] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

### Statistical analyses

No statistical analyses for this end point

### Secondary: Discontinuation Rates for any Reason and for Specific Reasons - Treatment Phase

End point title | Discontinuation Rates for any Reason and for Specific Reasons - Treatment Phase

End point description:

Discontinuation rate was the number and percentage of subjects who discontinued the study drug during the treatment phase. The reasons of discontinuation were recorded and analysed over a period.

End point type | Secondary

End point timeframe:

Month 12

| End point values                     | LCS12 (BAY86-5028) | Etonogestrel (ENG) |  |  |
|--------------------------------------|--------------------|--------------------|--|--|
| Subject group type                   | Reporting group    | Reporting group    |  |  |
| Number of subjects analysed          | 378 <sup>[4]</sup> | 381 <sup>[5]</sup> |  |  |
| Units: Percentage of subjects        |                    |                    |  |  |
| number (not applicable)              |                    |                    |  |  |
| Any reason                           | 19.6               | 26.8               |  |  |
| Wish for pregnancy                   | 0.8                | 1                  |  |  |
| Any reason except-wish for pregnancy | 18.8               | 25.7               |  |  |
| LCS12 expulsion                      | 0.8                | 0                  |  |  |

|   |      |      |  |  |
|---|------|------|--|--|
| Perforations (LCS12 group)                        | 0    | 0    |  |  |
| Adverse events                                    | 14.3 | 21.8 |  |  |
| ENG subdermal implant site infection or expulsion | 0    | 0    |  |  |
| Deeply inserted ENG subdermal implant             | 0    | 0    |  |  |
| Female genital bleeding pattern alterations       | 4.2  | 11.5 |  |  |

Notes:

[4] - FAS (Treatment Phase) with evaluable subjects for this outcome measure.

[5] - FAS (Treatment Phase)

### Statistical analyses

No statistical analyses for this end point

### Secondary: Overall Discontinuation Rate by Kaplan-Meier Analysis – Treatment Phase

|                        |   |
|------------------------|---|
| End point title        | Overall Discontinuation Rate by Kaplan-Meier Analysis – Treatment Phase   |
| End point description: | Overall discontinuation rates were analyzed by Kaplan-Meier analyses and presented as half yearly drop-out rates. |
| End point type         | Secondary   |
| End point timeframe:   | At first half year, second half year and third half year  |

| End point values              | LCS12 (BAY86-5028) | Etonogestrel (ENG) |  |  |
|-------------------------------|--------------------|--------------------|--|--|
| Subject group type            | Reporting group    | Reporting group    |  |  |
| Number of subjects analysed   | 378 <sup>[6]</sup> | 381 <sup>[7]</sup> |  |  |
| Units: Percentage of subjects |                    |                    |  |  |
| number (not applicable)       |                    |                    |  |  |
| First half year               | 9.52               | 14.7               |  |  |
| Second half year              | 10.82              | 14.15              |  |  |
| Third half year               | 0.47               | 0                  |  |  |

Notes:

[6] - FAS (Treatment phase) with evaluable subjects for this outcome measure.

[7] - FAS (Treatment phase)

### Statistical analyses

No statistical analyses for this end point

### Secondary: Discontinuation Rates by Reason During Overall Phase

|                        |   |
|------------------------|---|
| End point title        | Discontinuation Rates by Reason During Overall Phase  |
| End point description: | Discontinuation rate was the number and percentage of subjects who discontinued the study drug during the overall phase. The reasons of discontinuation were recorded and analysed over a period. |
| End point type         | Secondary   |
| End point timeframe:   | From start of treatment until 36 months   |

| <b>End point values</b>                     | LCS12                |  |  |  |
|---|----------------------|--|--|--|
| Subject group type                          | Subject analysis set |  |  |  |
| Number of subjects analysed                 | 378 <sup>[8]</sup>   |  |  |  |
| Units: Percentage of subjects               |                      |  |  |  |
| number (not applicable)                     |                      |  |  |  |
| Any reason                                  | 41.8                 |  |  |  |
| Wish for pregnancy                          | 5.6                  |  |  |  |
| Any reason except-wish for pregnancy        | 36.2                 |  |  |  |
| Pregnancy                                   | 1.1                  |  |  |  |
| Adverse events                              | 25.1                 |  |  |  |
| LCS12 expulsion                             | 1.3                  |  |  |  |
| Perforations                                | 0                    |  |  |  |
| Female genital bleeding pattern alterations | 8.5                  |  |  |  |

Notes:

[8] - FAS (Overall study) with evaluable subjects for this outcome measure.

## Statistical analyses

No statistical analyses for this end point

## Secondary: Discontinuation Rates by Reason and Parity During Overall Phase

|                 |   |
|-----------------|---|
| End point title | Discontinuation Rates by Reason and Parity During Overall Phase |
|-----------------|---|

End point description:

Discontinuation rate was the number and percentage of subjects who discontinued the study drug during the overall phase. The reasons of discontinuation were recorded and analysed over a period. Parity determined as nulliparous if the number of birth is 0 and parous if the number of birth is 1, 2, 3...n, including vaginal delivery and Cesarean section. The reasons of discontinuation were recorded and analysed over a period in nulliparous and parous.

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

End point timeframe:

From start of treatment until month 36

| <b>End point values</b>                        | LCS12                |  |  |  |
|--|----------------------|--|--|--|
| Subject group type                             | Subject analysis set |  |  |  |
| Number of subjects analysed                    | 378 <sup>[9]</sup>   |  |  |  |
| Units: Percentage of subjects                  |                      |  |  |  |
| number (not applicable)                        |                      |  |  |  |
| Nulliparous: Any reason (n=290)                | 43.1                 |  |  |  |
| Nulliparous: Wish for pregnancy (n=290)        | 5.5                  |  |  |  |
| Nulliparous: Except-wish for pregnancy (n=290) | 37.6                 |  |  |  |
| Nulliparous: Pregnancy (n=290)                 | 0.7                  |  |  |  |
| Nulliparous: LCS12 expulsion (n=290)           | 1.4                  |  |  |  |

|  |      |  |  |  |
|--|------|--|--|--|
| Nulliparous: Perforations (n=290)        | 0    |  |  |  |
| Nulliparous: Adverse events (n=290)      | 26.6 |  |  |  |
| Parous: Any reason (n=88)                | 37.5 |  |  |  |
| Parous: Wish for pregnancy (n=88)        | 5.7  |  |  |  |
| Parous: Except-wish for pregnancy (n=88) | 31.8 |  |  |  |
| Parous: Pregnancy (n=88)                 | 2.3  |  |  |  |
| Parous: LCS12 expulsion (n=88)           | 1.1  |  |  |  |
| Parous: Perforations (n=88)              | 0    |  |  |  |
| Parous: Adverse events (n=88)            | 20.5 |  |  |  |

Notes:

[9] - FAS (Overall study) with evaluable subjects for this outcome measure.

## Statistical analyses

No statistical analyses for this end point

### Secondary: Discontinuation Rates by Reason and Year During Overall Phase

|                 |   |
|-----------------|---|
| End point title | Discontinuation Rates by Reason and Year During Overall Phase |
|-----------------|---|

End point description:

Discontinuation rate was the number and percentage of subjects who discontinued the study drug during the overall phase. The reasons of discontinuation were recorded and analysed over a period.

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

End point timeframe:

From start of treatment until month 36

| End point values                            | LCS12 – Treatment phase 1 Year | LCS12 – Treatment phase 2 Year | LCS12 – Treatment phase 3 Year |  |
|---|--------------------------------|--------------------------------|--------------------------------|--|
| Subject group type                          | Subject analysis set           | Subject analysis set           | Subject analysis set           |  |
| Number of subjects analysed                 | 378 <sup>[10]</sup>            | 294 <sup>[11]</sup>            | 233 <sup>[12]</sup>            |  |
| Units: Percentage of subjects               |                                |                                |                                |  |
| number (not applicable)                     |                                |                                |                                |  |
| Any reason                                  | 19                             | 17.7                           | 14.6                           |  |
| Wish for pregnancy                          | 0.8                            | 3.1                            | 3.9                            |  |
| Any reason except-wish for pregnancy        | 18.3                           | 14.6                           | 10.7                           |  |
| Pregnancy                                   | 0.5                            | 0.3                            | 0.4                            |  |
| Adverse events                              | 14.3                           | 9.2                            | 6                              |  |
| LCS12 expulsion                             | 0.8                            | 0.7                            | 0                              |  |
| Perforations                                | 0                              | 0                              | 0                              |  |
| Female genital bleeding pattern alterations | 4.2                            | 3.4                            | 2.6                            |  |

Notes:

[10] - FAS (Overall study) with evaluable subjects of the respective treatment year for this measure.

[11] - FAS (Overall study) with evaluable subjects of the respective treatment year for this measure.

[12] - FAS (Overall study) with evaluable subjects of the respective treatment year for this measure.

## Statistical analyses

No statistical analyses for this end point

### Secondary: Overall Satisfaction Rate in Year 1

|   |                                     |
|---|-------------------------------------|
| End point title   | Overall Satisfaction Rate in Year 1 |
| End point description:<br>Satisfaction was to be assessed by the subject based on a 5-point Likert item, using the following question: How satisfied are you with the birth control method used during the study? 1. Very satisfied 2. Satisfied 3. Neither satisfied nor dissatisfied 4. Dissatisfied 5. Very dissatisfied. The overall satisfaction rate is the percentage of subjects selecting "1. Very satisfied" or "2. Satisfied" for the above question. Here, in the below table, number of subjects (n) signifies evaluable subjects for the respective category. |                                     |
| End point type  | Secondary                           |
| End point timeframe:<br>At 6 and 12 months  |                                     |

| End point values                                   | LCS12 (BAY86-5028)  | Etonogestrel (ENG)  |  |  |
|--|---------------------|---------------------|--|--|
| Subject group type                                 | Reporting group     | Reporting group     |  |  |
| Number of subjects analysed                        | 365 <sup>[13]</sup> | 369 <sup>[14]</sup> |  |  |
| Units: Percentage of subjects                      |                     |                     |  |  |
| number (not applicable)                            |                     |                     |  |  |
| Month 6 (M6): Very satisfied (n=365,369)           | 44.1                | 46.9                |  |  |
| M6: Satisfied (n=365,369)                          | 38.6                | 24.4                |  |  |
| M6: Neither satisfied nor dissatisfied (n=365,369) | 9                   | 14.4                |  |  |
| M6: Dissatisfied (n=365,369)                       | 6.8                 | 9.8                 |  |  |
| M6: Very dissatisfied (n=365,369)                  | 1.4                 | 4.6                 |  |  |
| Month 12 (M12): Very satisfied (n=327,319)         | 53.8                | 49.5                |  |  |
| M12: Satisfied (n=327,319)                         | 32.7                | 26.3                |  |  |
| M12: Neither satisfied nor dissatisfied(n=327,319) | 6.7                 | 10.3                |  |  |
| M12: Dissatisfied (n=327,319)                      | 5.8                 | 11.9                |  |  |
| M12: Very dissatisfied (n=327,319)                 | 0.9                 | 1.9                 |  |  |

Notes:

[13] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

[14] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

### Statistical analyses

No statistical analyses for this end point

### Secondary: User Satisfaction – Acceptability of the Administration of Study Treatment

|  |  |
|--|--|
| End point title  | User Satisfaction – Acceptability of the Administration of Study Treatment |
| End point description:<br>The degree of user satisfaction was assessed at the end-of-study visit using an eight item questionnaire. One of the items assessed was acceptability of study treatment which was categorized into the following: acceptable without inconvenience/discomfort (I/D), acceptable with some I/D, not acceptable with moderate I/D, and not acceptable with extreme I/D. Here, in the below table, number of subjects (n) signifies evaluable subjects for the respective category. Here, in the below table, number of subjects (n) signifies evaluable subjects for the respective category. |  |

|  |           |
|--|-----------|
| End point type                         | Secondary |
| End point timeframe:<br>month 6 and 12 |           |

| <b>End point values</b>                            | LCS12 (BAY86-5028)  | Etonogestrel (ENG)  |  |  |
|--|---------------------|---------------------|--|--|
| Subject group type                                 | Reporting group     | Reporting group     |  |  |
| Number of subjects analysed                        | 358 <sup>[15]</sup> | 366 <sup>[16]</sup> |  |  |
| Units: Subject                                     |                     |                     |  |  |
| M6: Acceptable without I/D (n=331, 318)            | 81                  | 201                 |  |  |
| M6: Acceptable with some I/D (n=331, 318)          | 203                 | 109                 |  |  |
| M6: Not acceptable with moderate I/D (n=331, 318)  | 16                  | 3                   |  |  |
| M6: Not acceptable with extreme I/D (n=331, 318)   | 31                  | 5                   |  |  |
| M12: Acceptable without I/D (n=357, 366)           | 93                  | 210                 |  |  |
| M12: Acceptable with some I/D (n=357, 366)         | 204                 | 136                 |  |  |
| M12: Not acceptable with moderate I/D (n=357, 366) | 27                  | 14                  |  |  |
| M12: Not acceptable with extreme I/D (n=357, 366)  | 33                  | 6                   |  |  |

Notes:

[15] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

[16] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

### Statistical analyses

No statistical analyses for this end point

### Secondary: User Satisfaction – Choices Upon Completion of the Study

|   |  |
|---|--|
| End point title   | User Satisfaction – Choices Upon Completion of the Study |
| End point description:<br>At visit month 6 and month 12 the choices upon completion of the study has been asked from the subjects using six item questionnaire. Questionnaires for the continuation of the study treatment was categorized into the following: continue with study treatment, use a different hormonal contraceptive, discontinue use of all contraceptives, continue with study treatment, and use different hormonal contraceptives. Here, in the below table, number of subjects (n) signifies evaluable subjects for the respective category. |  |
| End point type  | Secondary  |
| End point timeframe:<br>Month 6 and 12  |  |

| <b>End point values</b>                            | LCS12 (BAY86-5028)  | Etonogestrel (ENG)  |  |  |
|--|---------------------|---------------------|--|--|
| Subject group type                                 | Reporting group     | Reporting group     |  |  |
| Number of subjects analysed                        | 357 <sup>[17]</sup> | 366 <sup>[18]</sup> |  |  |
| Units: Subject                                     |                     |                     |  |  |
| M6 m: Continue with study treatment (n=329, 317)   | 252                 | 236                 |  |  |
| M6: Different hormonal Contraceptive (n=329, 317)  | 18                  | 13                  |  |  |
| M6: Different Contraceptive method (n=329, 317)    | 8                   | 15                  |  |  |
| M6: Discontinue of all Contraceptive (n=329, 317)  | 0                   | 3                   |  |  |
| M6: Undecided (n=329, 317)                         | 51                  | 50                  |  |  |
| M12: Continue with study treatment (n=357, 366)    | 251                 | 214                 |  |  |
| M12: Different hormonal Contraceptive (n=357, 366) | 34                  | 58                  |  |  |
| M12: Different Contraceptive method (n=357, 366)   | 30                  | 56                  |  |  |
| M12: Discontinue of all Contraceptive (n=357, 366) | 5                   | 5                   |  |  |
| M12: No need Contraceptive this time (n=357, 366)  | 8                   | 12                  |  |  |
| M12: Undecided (n=357, 366)                        | 29                  | 21                  |  |  |

Notes:

[17] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

[18] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

## Statistical analyses

No statistical analyses for this end point

## Secondary: User Satisfaction – Amount of Menstrual Bleeding

|                        |   |
|------------------------|---|
| End point title        | User Satisfaction – Amount of Menstrual Bleeding  |
| End point description: | The degree of user satisfaction was assessed at the end-of-study visit using an eight item questionnaire. One of the items assessed was acceptability of study treatment which was categorized into the following: acceptable without inconvenience/discomfort (I/D), acceptable with some I/D, not acceptable with moderate I/D, and not acceptable with extreme I/D. Here, in the below table, number of subjects (n) signifies evaluable subjects for the respective category. |
| End point type         | Secondary   |
| End point timeframe:   | Month 6 and 12  |

| <b>End point values</b>       | LCS12 (BAY86-5028)  | Etonogestrel (ENG)  |  |  |
|-------------------------------|---------------------|---------------------|--|--|
| Subject group type            | Reporting group     | Reporting group     |  |  |
| Number of subjects analysed   | 357 <sup>[19]</sup> | 365 <sup>[20]</sup> |  |  |
| Units: Subject                |                     |                     |  |  |
| M6: Decreased (n= 331, 317)   | 254                 | 201                 |  |  |
| M6: Not Changed (n= 331, 317) | 61                  | 73                  |  |  |
| M6: Increased (n= 331, 317)   | 16                  | 43                  |  |  |
| M12: Decreased (n= 357, 365)  | 203                 | 147                 |  |  |

|                                |     |     |  |  |
|--------------------------------|-----|-----|--|--|
| M12: Not Changed (n= 357, 365) | 121 | 142 |  |  |
| M12: Increased (n= 357, 365)   | 33  | 76  |  |  |

Notes:

[19] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

[20] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

### Statistical analyses

No statistical analyses for this end point

### Secondary: User Satisfaction – Satisfaction With Menstrual Bleeding Pattern

|                 |  |
|-----------------|--|
| End point title | User Satisfaction – Satisfaction With Menstrual Bleeding Pattern |
|-----------------|--|

End point description:

The degree of user satisfaction with menstrual bleeding absence was assessed at the end-of-study visit using four item questionnaire. Questionnaires for this assessment were categorized into very satisfied, somewhat satisfied, neither satisfied nor dissatisfied, dissatisfied, very dissatisfied and not applicable. Here, in the below table, number of subjects (n) signifies evaluable subjects for the respective category.

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

End point timeframe:

Month 6 and 12

| End point values                                   | LCS12 (BAY86-5028)  | Etonogestrel (ENG)  |  |  |
|--|---------------------|---------------------|--|--|
| Subject group type                                 | Reporting group     | Reporting group     |  |  |
| Number of subjects analysed                        | 358 <sup>[21]</sup> | 366 <sup>[22]</sup> |  |  |
| Units: Subjects                                    |                     |                     |  |  |
| M6: Very satisfied (n=331, 318)                    | 87                  | 66                  |  |  |
| M6: Somewhat satisfied (n=331, 318)                | 123                 | 66                  |  |  |
| M6: Neither satisfied nor dissatisfied (n=331,318) | 64                  | 54                  |  |  |
| M6: Dissatisfied (n=331, 318)                      | 30                  | 55                  |  |  |
| M6: Very dissatisfied (n=331, 318)                 | 9                   | 23                  |  |  |
| M6: Not applicable (n=331, 318)                    | 18                  | 54                  |  |  |
| M12: Very satisfied (n=358, 366)                   | 119                 | 75                  |  |  |
| M12: Somewhat satisfied (n=358, 366)               | 99                  | 48                  |  |  |
| M12: Neither satisfied nor dissatisfied(n=358,366) | 69                  | 68                  |  |  |
| M12: Dissatisfied (n=358, 366)                     | 35                  | 67                  |  |  |
| M12: Very dissatisfied (n=358, 366)                | 21                  | 50                  |  |  |
| M12: Not applicable (n=358, 366)                   | 15                  | 58                  |  |  |

Notes:

[21] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

[22] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

### Statistical analyses

No statistical analyses for this end point

### Secondary: User Satisfaction – Frequency of Experiencing Unexpected Bleeding

|                 |  |
|-----------------|--|
| End point title | User Satisfaction – Frequency of Experiencing Unexpected |
|-----------------|--|

## End point description:

The degree of user satisfaction with menstrual bleeding absence was assessed at the end-of-study visit using four item questionnaire. Questionnaires for this assessment were categorized into never, seldom, often and very often. Here, in the below table, number of subjects (n) signifies evaluable subjects for the respective category.

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

## End point timeframe:

|                |
|----------------|
| Month 6 and 12 |
|----------------|

| End point values             | LCS12 (BAY86-5028)  | Etonogestrel (ENG)  |  |  |
|------------------------------|---------------------|---------------------|--|--|
| Subject group type           | Reporting group     | Reporting group     |  |  |
| Number of subjects analysed  | 358 <sup>[23]</sup> | 366 <sup>[24]</sup> |  |  |
| Units: Subjects              |                     |                     |  |  |
| M6: Never (n=331, 317)       | 111                 | 111                 |  |  |
| M6: Seldom (n=331, 317)      | 170                 | 110                 |  |  |
| M6: Often (n=331, 317)       | 40                  | 67                  |  |  |
| M6: Very often (n=331, 317)  | 10                  | 29                  |  |  |
| M12: Never (n=358, 366)      | 158                 | 119                 |  |  |
| M12: Seldom (n=358, 366)     | 150                 | 116                 |  |  |
| M12: Often (n=358, 366)      | 34                  | 81                  |  |  |
| M12: Very often (n=358, 366) | 16                  | 50                  |  |  |

## Notes:

[23] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

[24] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

### Statistical analyses

No statistical analyses for this end point

### Secondary: User Satisfaction – Satisfaction With Menstrual Bleeding Absence

|                 |  |
|-----------------|--|
| End point title | User Satisfaction – Satisfaction With Menstrual Bleeding Absence |
|-----------------|--|

## End point description:

The degree of user satisfaction with menstrual bleeding absence was assessed at the end-of-study visit using four item questionnaire. Questionnaires for this assessment were categorized into very satisfied, somewhat satisfied, neither satisfied nor dissatisfied and dissatisfied. Here, in the below table, number of subjects (n) signifies evaluable subjects for the respective category. '99999' in the posting indicates that data were not calculated.

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

## End point timeframe:

|                |
|----------------|
| Month 6 and 12 |
|----------------|

| <b>End point values</b>                            | LCS12 (BAY86-5028)  | Etonogestrel (ENG)  |  |  |
|--|---------------------|---------------------|--|--|
| Subject group type                                 | Reporting group     | Reporting group     |  |  |
| Number of subjects analysed                        | 141 <sup>[25]</sup> | 193 <sup>[26]</sup> |  |  |
| Units: Subjects                                    |                     |                     |  |  |
| M6: Very satisfied (n=117,189)                     | 86                  | 136                 |  |  |
| M6: Somewhat satisfied (n=117,189)                 | 21                  | 33                  |  |  |
| M6: Neither satisfied nor dissatisfied (n=117,189) | 10                  | 17                  |  |  |
| M6: Dissatisfied (n=117,189)                       | 0                   | 3                   |  |  |
| M12: Very satisfied (n=141,193)                    | 111                 | 150                 |  |  |
| M12: Somewhat satisfied (n=141,193)                | 18                  | 29                  |  |  |
| M12: Neither satisfied nor dissatisfied(n=141,193) | 11                  | 12                  |  |  |
| M12: Dissatisfied (n=141,193)                      | 0                   | 2                   |  |  |
| M12: Very dissatisfied (n=141,193)                 | 1                   | 0                   |  |  |

Notes:

[25] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

[26] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

### Statistical analyses

No statistical analyses for this end point

### Secondary: Contraceptive Efficacy: Pearl Index (PI)- Treatment Phase

|                 |   |
|-----------------|---|
| End point title | Contraceptive Efficacy: Pearl Index (PI)- Treatment Phase |
|-----------------|---|

End point description:

The Pearl Index was defined as the number of pregnancies per 100 woman years (WYs). Given the assumption that the number of pregnancies follows a Poisson distribution, the Pearl Index thus is the mean of this distribution.

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

End point timeframe:

Month 12

| <b>End point values</b>                   | LCS12 (BAY86-5028)  | Etonogestrel (ENG)  |  |  |
|---|---------------------|---------------------|--|--|
| Subject group type                        | Reporting group     | Reporting group     |  |  |
| Number of subjects analysed               | 378 <sup>[27]</sup> | 381 <sup>[28]</sup> |  |  |
| Units: pregnancies per 100 women years    |                     |                     |  |  |
| arithmetic mean (confidence interval 95%) | 0.9 (0.19 to 2.63)  | 0 (0 to 1.18)       |  |  |

Notes:

[27] - FAS (Treatment Phase) included evaluable subjects for this outcome measure.

[28] - FAS (Treatment Phase)

### Statistical analyses

No statistical analyses for this end point

### Secondary: Contraceptive Efficacy: Pearl Index-Overall Study, first year, Second year, Third year, Up to Second year, Up to Third year and Overall of the treatment

|   |  |
|---|--|
| End point title   | Contraceptive Efficacy: Pearl Index-Overall Study, first year, Second year, Third year, Up to Second year, Up to Third year and Overall of the treatment |
| End point description:<br>The Pearl Index was defined as the number of pregnancies per 100 woman years (WYs). Given the assumption that the number of pregnancies follows a Poisson distribution, the Pearl Index thus is the mean of this distribution. Here, in the below table, number of subjects (n) signifies evaluable subjects for the respective category. |  |
| End point type  | Secondary  |
| End point timeframe:<br>From start of study treatment up to Month 36  |  |

| End point values                          | LCS12                |  |  |  |
|---|----------------------|--|--|--|
| Subject group type                        | Subject analysis set |  |  |  |
| Number of subjects analysed               | 378 <sup>[29]</sup>  |  |  |  |
| Units: Pregnancies per 100 women years    |                      |  |  |  |
| arithmetic mean (confidence interval 95%) |                      |  |  |  |
| Year 1 (n=378)                            | 0.92 (0.19 to 2.7)   |  |  |  |
| Year 2 (n=295)                            | 0.39 (0.01 to 2.15)  |  |  |  |
| Year 3 (n=237)                            | 0.98 (0.12 to 3.53)  |  |  |  |
| 2 Years (n=378)                           | 0.68 (0.19 to 1.75)  |  |  |  |
| 3 Years (n=378)                           | 0.76 (0.28 to 1.65)  |  |  |  |
| Overall (n=378)                           | 0.76 (0.28 to 1.65)  |  |  |  |

Notes:

[29] - FAS (overall study) with evaluable subjects for this outcome measure.

### Statistical analyses

No statistical analyses for this end point

### Secondary: LNG Residual Content Analysis

|   |                               |
|---|-------------------------------|
| End point title   | LNG Residual Content Analysis |
| End point description:<br>The residual LNG content was determined in the used LCS12 which was collected from the subjects who prematurely discontinued study treatment in order to determine the performance of LCS12. Subjects who were discontinued from the study between 11 days and 609 days were reported for this outcome measure. |                               |
| End point type  | Secondary                     |
| End point timeframe:<br>Between 11 days and 609 days and after 609 days   |                               |

|                             |                      |  |  |  |
|-----------------------------|----------------------|--|--|--|
| <b>End point values</b>     | LCS12                |  |  |  |
| Subject group type          | Subject analysis set |  |  |  |
| Number of subjects analysed | 81 <sup>[30]</sup>   |  |  |  |
| Units: milligram            |                      |  |  |  |
| number (not applicable)     |                      |  |  |  |
| Immediate after insertion   | 13.7                 |  |  |  |
| After 609 days              | 9.5                  |  |  |  |

Notes:

[30] - FAS (Overall study) with evaluable subjects for this outcome measure.

### **Statistical analyses**

---

No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

From start of study treatment up to Month 12 for the subjects in comparative treatment phase and up to Year 3 for the subjects in extension phase

|                 |                |
|-----------------|----------------|
| Assessment type | Non-systematic |
|-----------------|----------------|

### Dictionary used

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

|                    |      |
|--------------------|------|
| Dictionary version | 18.0 |
|--------------------|------|

### Reporting groups

|                       |       |
|-----------------------|-------|
| Reporting group title | LCS12 |
|-----------------------|-------|

Reporting group description:

Subjects received LCS12 for 36 months.

|                       |                       |
|-----------------------|-----------------------|
| Reporting group title | ENG - Treatment Phase |
|-----------------------|-----------------------|

Reporting group description:

Subjects received 68 mg ENG implant for sub-dermal use at initial release rate 60 - 70 microgram per day (mcg/day) for 12 months.

|                       |                                |
|-----------------------|--------------------------------|
| Reporting group title | LCS12 - Treatment phase 1 Year |
|-----------------------|--------------------------------|

Reporting group description:

Subjects received LCS12 for until end of first year of treatment.

|                       |                                |
|-----------------------|--------------------------------|
| Reporting group title | LCS12 - Treatment phase 2 Year |
|-----------------------|--------------------------------|

Reporting group description:

Subjects received LCS12 from start of 2nd year until end of 2nd year.

|                       |                                |
|-----------------------|--------------------------------|
| Reporting group title | LCS12 - Treatment phase 3 Year |
|-----------------------|--------------------------------|

Reporting group description:

Subjects received LCS12 from start of 3rd year until end of 3rd year.

| <b>Serious adverse events</b>                                       | LCS12            | ENG - Treatment Phase | LCS12 - Treatment phase 1 Year |
|---|------------------|-----------------------|--------------------------------|
| Total subjects affected by serious adverse events                   |                  |                       |                                |
| subjects affected / exposed   | 18 / 382 (4.71%) | 9 / 381 (2.36%)       | 8 / 382 (2.09%)                |
| number of deaths (all causes)                                       | 1                | 0                     | 1                              |
| number of deaths resulting from adverse events                      |                  | 0                     |                                |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                  |                       |                                |
| Ovarian adenoma   |                  |                       |                                |
| subjects affected / exposed   | 1 / 382 (0.26%)  | 0 / 381 (0.00%)       | 0 / 382 (0.00%)                |
| occurrences causally related to treatment / all                     | 1 / 1            | 0 / 0                 | 0 / 0                          |
| deaths causally related to treatment / all                          | 0 / 0            | 0 / 0                 | 0 / 0                          |
| Injury, poisoning and procedural complications                      |                  |                       |                                |
| Ankle fracture  |                  |                       |                                |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 0 / 382 (0.00%) | 1 / 381 (0.26%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Dislocation of vertebra                         |                 |                 |                 |
| subjects affected / exposed                     | 0 / 382 (0.00%) | 1 / 381 (0.26%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Tendon rupture                                  |                 |                 |                 |
| subjects affected / exposed                     | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Lumbar vertebral fracture                       |                 |                 |                 |
| subjects affected / exposed                     | 0 / 382 (0.00%) | 1 / 381 (0.26%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Post procedural haemorrhage                     |                 |                 |                 |
| subjects affected / exposed                     | 0 / 382 (0.00%) | 1 / 381 (0.26%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Pelvic fracture                                 |                 |                 |                 |
| subjects affected / exposed                     | 0 / 382 (0.00%) | 1 / 381 (0.26%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Urinary retention postoperative                 |                 |                 |                 |
| subjects affected / exposed                     | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 1 / 382 (0.26%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Surgical and medical procedures                 |                 |                 |                 |
| Abdominoplasty                                  |                 |                 |                 |
| subjects affected / exposed                     | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 1 / 382 (0.26%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| Thyroidectomy                                   |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                           | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all       | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Nervous system disorders</b>                       |                 |                 |                 |
| Cerebral infarction                                   |                 |                 |                 |
| subjects affected / exposed                           | 0 / 382 (0.00%) | 1 / 381 (0.26%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all       | 0 / 0           | 1 / 1           | 0 / 0           |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Pregnancy, puerperium and perinatal conditions</b> |                 |                 |                 |
| Ruptured ectopic pregnancy                            |                 |                 |                 |
| subjects affected / exposed                           | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all       | 1 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           | 0 / 0           |
| Biochemical pregnancy                                 |                 |                 |                 |
| subjects affected / exposed                           | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all       | 1 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           | 0 / 0           |
| Pregnancy of unknown location                         |                 |                 |                 |
| subjects affected / exposed                           | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all       | 1 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           | 0 / 0           |
| Ectopic pregnancy with contraceptive device           |                 |                 |                 |
| subjects affected / exposed                           | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 1 / 382 (0.26%) |
| occurrences causally related to treatment / all       | 1 / 1           | 0 / 0           | 1 / 1           |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Gastrointestinal disorders</b>                     |                 |                 |                 |
| Food poisoning  |                 |                 |                 |
| subjects affected / exposed                           | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all       | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all            | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Hepatobiliary disorders</b>                        |                 |                 |                 |
| Cholecystitis   |                 |                 |                 |

|  |                 |                 |                 |
|--|-----------------|-----------------|-----------------|
| subjects affected / exposed                            | 0 / 382 (0.00%) | 1 / 381 (0.26%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all        | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Cholelithiasis</b>                                  |                 |                 |                 |
| subjects affected / exposed                            | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 1 / 382 (0.26%) |
| occurrences causally related to treatment / all        | 0 / 1           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Respiratory, thoracic and mediastinal disorders</b> |                 |                 |                 |
| <b>Tracheomalacia</b>                                  |                 |                 |                 |
| subjects affected / exposed                            | 0 / 382 (0.00%) | 1 / 381 (0.26%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all        | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Psychiatric disorders</b>                           |                 |                 |                 |
| <b>Completed suicide</b>                               |                 |                 |                 |
| subjects affected / exposed                            | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 1 / 382 (0.26%) |
| occurrences causally related to treatment / all        | 0 / 1           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all             | 0 / 1           | 0 / 0           | 0 / 1           |
| <b>Endocrine disorders</b>                             |                 |                 |                 |
| <b>Basedow's disease</b>                               |                 |                 |                 |
| subjects affected / exposed                            | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 1 / 382 (0.26%) |
| occurrences causally related to treatment / all        | 0 / 1           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Musculoskeletal and connective tissue disorders</b> |                 |                 |                 |
| <b>Intervertebral disc protrusion</b>                  |                 |                 |                 |
| subjects affected / exposed                            | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 1 / 382 (0.26%) |
| occurrences causally related to treatment / all        | 0 / 2           | 0 / 0           | 0 / 2           |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Prognathism</b>                                     |                 |                 |                 |
| subjects affected / exposed                            | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 1 / 382 (0.26%) |
| occurrences causally related to treatment / all        | 0 / 1           | 0 / 0           | 0 / 1           |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Infections and infestations</b>                     |                 |                 |                 |
| <b>Appendicitis</b>                                    |                 |                 |                 |

|   |                 |                 |                 |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed                     | 2 / 382 (0.52%) | 1 / 381 (0.26%) | 1 / 382 (0.26%) |
| occurrences causally related to treatment / all | 0 / 2           | 0 / 1           | 0 / 1           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Campylobacter gastroenteritis</b>            |                 |                 |                 |
| subjects affected / exposed                     | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Diverticulitis</b>                           |                 |                 |                 |
| subjects affected / exposed                     | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Peritonsillar abscess</b>                    |                 |                 |                 |
| subjects affected / exposed                     | 0 / 382 (0.00%) | 1 / 381 (0.26%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Pneumonia</b>                                |                 |                 |                 |
| subjects affected / exposed                     | 0 / 382 (0.00%) | 1 / 381 (0.26%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Pyelonephritis</b>                           |                 |                 |                 |
| subjects affected / exposed                     | 0 / 382 (0.00%) | 1 / 381 (0.26%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Upper respiratory tract infection</b>        |                 |                 |                 |
| subjects affected / exposed                     | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |
| <b>Pneumococcal sepsis</b>                      |                 |                 |                 |
| subjects affected / exposed                     | 1 / 382 (0.26%) | 0 / 381 (0.00%) | 0 / 382 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           | 0 / 0           |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           | 0 / 0           |

|                               |                                |                                |  |
|-------------------------------|--------------------------------|--------------------------------|--|
| <b>Serious adverse events</b> | LCS12 - Treatment phase 2 Year | LCS12 - Treatment phase 3 Year |  |
|-------------------------------|--------------------------------|--------------------------------|--|

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| Total subjects affected by serious adverse events                   |                 |                 |  |
| subjects affected / exposed   | 4 / 293 (1.37%) | 7 / 234 (2.99%) |  |
| number of deaths (all causes)                                       | 0               | 0               |  |
| number of deaths resulting from adverse events                      | 0               | 0               |  |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) |                 |                 |  |
| Ovarian adenoma   |                 |                 |  |
| subjects affected / exposed   | 0 / 293 (0.00%) | 1 / 234 (0.43%) |  |
| occurrences causally related to treatment / all                     | 0 / 0           | 1 / 1           |  |
| deaths causally related to treatment / all                          | 0 / 0           | 0 / 0           |  |
| Injury, poisoning and procedural complications                      |                 |                 |  |
| Ankle fracture  |                 |                 |  |
| subjects affected / exposed   | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all                     | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all                          | 0 / 0           | 0 / 0           |  |
| Dislocation of vertebra   |                 |                 |  |
| subjects affected / exposed   | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all                     | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all                          | 0 / 0           | 0 / 0           |  |
| Tendon rupture  |                 |                 |  |
| subjects affected / exposed   | 0 / 293 (0.00%) | 1 / 234 (0.43%) |  |
| occurrences causally related to treatment / all                     | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all                          | 0 / 0           | 0 / 0           |  |
| Lumbar vertebral fracture   |                 |                 |  |
| subjects affected / exposed   | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all                     | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all                          | 0 / 0           | 0 / 0           |  |
| Post procedural haemorrhage   |                 |                 |  |
| subjects affected / exposed   | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all                     | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all                          | 0 / 0           | 0 / 0           |  |
| Pelvic fracture   |                 |                 |  |
| subjects affected / exposed   | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all                     | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all                          | 0 / 0           | 0 / 0           |  |

|  |                 |                 |  |
|--|-----------------|-----------------|--|
| Urinary retention postoperative<br>subjects affected / exposed | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to<br>treatment / all             | 0 / 0           | 0 / 0           |  |
| deaths causally related to<br>treatment / all                  | 0 / 0           | 0 / 0           |  |
| Surgical and medical procedures                                |                 |                 |  |
| Abdominoplasty   |                 |                 |  |
| subjects affected / exposed                                    | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to<br>treatment / all             | 0 / 0           | 0 / 0           |  |
| deaths causally related to<br>treatment / all                  | 0 / 0           | 0 / 0           |  |
| Thyroidectomy  |                 |                 |  |
| subjects affected / exposed                                    | 1 / 293 (0.34%) | 0 / 234 (0.00%) |  |
| occurrences causally related to<br>treatment / all             | 0 / 1           | 0 / 0           |  |
| deaths causally related to<br>treatment / all                  | 0 / 0           | 0 / 0           |  |
| Nervous system disorders                                       |                 |                 |  |
| Cerebral infarction  |                 |                 |  |
| subjects affected / exposed                                    | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to<br>treatment / all             | 0 / 0           | 0 / 0           |  |
| deaths causally related to<br>treatment / all                  | 0 / 0           | 0 / 0           |  |
| Pregnancy, puerperium and perinatal<br>conditions              |                 |                 |  |
| Ruptured ectopic pregnancy                                     |                 |                 |  |
| subjects affected / exposed                                    | 0 / 293 (0.00%) | 1 / 234 (0.43%) |  |
| occurrences causally related to<br>treatment / all             | 0 / 0           | 1 / 1           |  |
| deaths causally related to<br>treatment / all                  | 0 / 0           | 0 / 0           |  |
| Biochemical pregnancy  |                 |                 |  |
| subjects affected / exposed                                    | 1 / 293 (0.34%) | 0 / 234 (0.00%) |  |
| occurrences causally related to<br>treatment / all             | 1 / 1           | 0 / 0           |  |
| deaths causally related to<br>treatment / all                  | 0 / 0           | 0 / 0           |  |
| Pregnancy of unknown location                                  |                 |                 |  |
| subjects affected / exposed                                    | 0 / 293 (0.00%) | 1 / 234 (0.43%) |  |
| occurrences causally related to<br>treatment / all             | 0 / 0           | 1 / 1           |  |
| deaths causally related to<br>treatment / all                  | 0 / 0           | 0 / 0           |  |
| Ectopic pregnancy with contraceptive<br>device                 |                 |                 |  |

|  |                 |                 |  |
|--|-----------------|-----------------|--|
| subjects affected / exposed                            | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all        | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Gastrointestinal disorders</b>                      |                 |                 |  |
| Food poisoning   |                 |                 |  |
| subjects affected / exposed                            | 1 / 293 (0.34%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all        | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Hepatobiliary disorders</b>                         |                 |                 |  |
| Cholecystitis  |                 |                 |  |
| subjects affected / exposed                            | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all        | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| Cholelithiasis   |                 |                 |  |
| subjects affected / exposed                            | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all        | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Respiratory, thoracic and mediastinal disorders</b> |                 |                 |  |
| Tracheomalacia   |                 |                 |  |
| subjects affected / exposed                            | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all        | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Psychiatric disorders</b>                           |                 |                 |  |
| Completed suicide                                      |                 |                 |  |
| subjects affected / exposed                            | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all        | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Endocrine disorders</b>                             |                 |                 |  |
| Basedow's disease                                      |                 |                 |  |
| subjects affected / exposed                            | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all        | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all             | 0 / 0           | 0 / 0           |  |
| <b>Musculoskeletal and connective tissue disorders</b> |                 |                 |  |
| Intervertebral disc protrusion                         |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Prognathism                                     |                 |                 |  |
| subjects affected / exposed                     | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Infections and infestations                     |                 |                 |  |
| Appendicitis                                    |                 |                 |  |
| subjects affected / exposed                     | 0 / 293 (0.00%) | 1 / 234 (0.43%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Campylobacter gastroenteritis                   |                 |                 |  |
| subjects affected / exposed                     | 0 / 293 (0.00%) | 1 / 234 (0.43%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Diverticulitis                                  |                 |                 |  |
| subjects affected / exposed                     | 1 / 293 (0.34%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 1           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Peritonsillar abscess                           |                 |                 |  |
| subjects affected / exposed                     | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pneumonia                                       |                 |                 |  |
| subjects affected / exposed                     | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Pyelonephritis                                  |                 |                 |  |
| subjects affected / exposed                     | 0 / 293 (0.00%) | 0 / 234 (0.00%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 0           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| Upper respiratory tract infection               |                 |                 |  |

|   |                 |                 |  |
|---|-----------------|-----------------|--|
| subjects affected / exposed                     | 0 / 293 (0.00%) | 1 / 234 (0.43%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |
| <b>Pneumococcal sepsis</b>                      |                 |                 |  |
| subjects affected / exposed                     | 0 / 293 (0.00%) | 1 / 234 (0.43%) |  |
| occurrences causally related to treatment / all | 0 / 0           | 0 / 1           |  |
| deaths causally related to treatment / all      | 0 / 0           | 0 / 0           |  |

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

| <b>Non-serious adverse events</b>                            | LCS12              | ENG - Treatment Phase | LCS12 - Treatment phase 1 Year |
|--|--------------------|-----------------------|--------------------------------|
| <b>Total subjects affected by non-serious adverse events</b> |                    |                       |                                |
| subjects affected / exposed                                  | 298 / 382 (78.01%) | 186 / 381 (48.82%)    | 270 / 382 (70.68%)             |
| <b>Injury, poisoning and procedural complications</b>        |                    |                       |                                |
| Procedural pain  |                    |                       |                                |
| subjects affected / exposed                                  | 57 / 382 (14.92%)  | 6 / 381 (1.57%)       | 51 / 382 (13.35%)              |
| occurrences (all)  | 57                 | 6                     | 51                             |
| <b>Nervous system disorders</b>                              |                    |                       |                                |
| Headache   |                    |                       |                                |
| subjects affected / exposed                                  | 44 / 382 (11.52%)  | 42 / 381 (11.02%)     | 41 / 382 (10.73%)              |
| occurrences (all)  | 72                 | 56                    | 68                             |
| <b>Gastrointestinal disorders</b>                            |                    |                       |                                |
| Abdominal pain lower   |                    |                       |                                |
| subjects affected / exposed                                  | 30 / 382 (7.85%)   | 7 / 381 (1.84%)       | 26 / 382 (6.81%)               |
| occurrences (all)  | 41                 | 7                     | 36                             |
| <b>Reproductive system and breast disorders</b>              |                    |                       |                                |
| Cervical dysplasia   |                    |                       |                                |
| subjects affected / exposed                                  | 64 / 382 (16.75%)  | 27 / 381 (7.09%)      | 21 / 382 (5.50%)               |
| occurrences (all)  | 80                 | 27                    | 23                             |
| Dysmenorrhoea  |                    |                       |                                |
| subjects affected / exposed                                  | 137 / 382 (35.86%) | 29 / 381 (7.61%)      | 128 / 382 (33.51%)             |
| occurrences (all)  | 170                | 30                    | 151                            |
| Uterine spasm  |                    |                       |                                |
| subjects affected / exposed                                  | 61 / 382 (15.97%)  | 0 / 381 (0.00%)       | 61 / 382 (15.97%)              |
| occurrences (all)  | 66                 | 0                     | 66                             |

|   |                   |                   |                   |
|---|-------------------|-------------------|-------------------|
| Skin and subcutaneous tissue disorders  |                   |                   |                   |
| Acne                                    |                   |                   |                   |
| subjects affected / exposed             | 59 / 382 (15.45%) | 59 / 381 (15.49%) | 49 / 382 (12.83%) |
| occurrences (all)                       | 66                | 61                | 54                |
| Infections and infestations             |                   |                   |                   |
| Influenza                               |                   |                   |                   |
| subjects affected / exposed             | 18 / 382 (4.71%)  | 24 / 381 (6.30%)  | 15 / 382 (3.93%)  |
| occurrences (all)                       | 26                | 27                | 22                |
| Nasopharyngitis                         |                   |                   |                   |
| subjects affected / exposed             | 29 / 382 (7.59%)  | 32 / 381 (8.40%)  | 26 / 382 (6.81%)  |
| occurrences (all)                       | 33                | 39                | 29                |
| Urinary tract infection                 |                   |                   |                   |
| subjects affected / exposed             | 40 / 382 (10.47%) | 15 / 381 (3.94%)  | 25 / 382 (6.54%)  |
| occurrences (all)                       | 59                | 22                | 31                |
| Viral upper respiratory tract infection |                   |                   |                   |
| subjects affected / exposed             | 22 / 382 (5.76%)  | 11 / 381 (2.89%)  | 17 / 382 (4.45%)  |
| occurrences (all)                       | 35                | 15                | 22                |
| Vulvovaginal candidiasis                |                   |                   |                   |
| subjects affected / exposed             | 30 / 382 (7.85%)  | 10 / 381 (2.62%)  | 19 / 382 (4.97%)  |
| occurrences (all)                       | 41                | 12                | 27                |

| <b>Non-serious adverse events</b>                     | LCS12 - Treatment phase 2 Year | LCS12 - Treatment phase 3 Year |  |
|---|--------------------------------|--------------------------------|--|
| Total subjects affected by non-serious adverse events |                                |                                |  |
| subjects affected / exposed                           | 75 / 293 (25.60%)              | 55 / 234 (23.50%)              |  |
| Injury, poisoning and procedural complications        |                                |                                |  |
| Procedural pain                                       |                                |                                |  |
| subjects affected / exposed                           | 0 / 293 (0.00%)                | 6 / 234 (2.56%)                |  |
| occurrences (all)                                     | 0                              | 6                              |  |
| Nervous system disorders                              |                                |                                |  |
| Headache  |                                |                                |  |
| subjects affected / exposed                           | 1 / 293 (0.34%)                | 3 / 234 (1.28%)                |  |
| occurrences (all)                                     | 1                              | 3                              |  |
| Gastrointestinal disorders                            |                                |                                |  |
| Abdominal pain lower                                  |                                |                                |  |
| subjects affected / exposed                           | 4 / 293 (1.37%)                | 1 / 234 (0.43%)                |  |
| occurrences (all)                                     | 4                              | 1                              |  |
| Reproductive system and breast disorders              |                                |                                |  |

|  |                         |                        |  |
|--|-------------------------|------------------------|--|
| Cervical dysplasia<br>subjects affected / exposed<br>occurrences (all)                             | 32 / 293 (10.92%)<br>34 | 20 / 234 (8.55%)<br>23 |  |
| Dysmenorrhoea<br>subjects affected / exposed<br>occurrences (all)                                  | 14 / 293 (4.78%)<br>14  | 4 / 234 (1.71%)<br>5   |  |
| Uterine spasm<br>subjects affected / exposed<br>occurrences (all)                                  | 0 / 293 (0.00%)<br>0    | 0 / 234 (0.00%)<br>0   |  |
| Skin and subcutaneous tissue disorders<br>Acne<br>subjects affected / exposed<br>occurrences (all) | 8 / 293 (2.73%)<br>8    | 4 / 234 (1.71%)<br>4   |  |
| Infections and infestations<br>Influenza<br>subjects affected / exposed<br>occurrences (all)       | 3 / 293 (1.02%)<br>3    | 1 / 234 (0.43%)<br>1   |  |
| Nasopharyngitis<br>subjects affected / exposed<br>occurrences (all)                                | 2 / 293 (0.68%)<br>2    | 2 / 234 (0.85%)<br>2   |  |
| Urinary tract infection<br>subjects affected / exposed<br>occurrences (all)                        | 11 / 293 (3.75%)<br>11  | 10 / 234 (4.27%)<br>17 |  |
| Viral upper respiratory tract infection<br>subjects affected / exposed<br>occurrences (all)        | 6 / 293 (2.05%)<br>6    | 6 / 234 (2.56%)<br>7   |  |
| Vulvovaginal candidiasis<br>subjects affected / exposed<br>occurrences (all)                       | 7 / 293 (2.39%)<br>7    | 7 / 234 (2.99%)<br>7   |  |

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date         | Amendment  |
|--------------|--|
| 09 June 2011 | 1. LCS12 extension phase was to continue up to 3 years, and was not to be ended if a marketing authorization was received. Phase between the screening visit and randomization visit was reduced to 8 weeks from the originally planned 12 weeks<br>2. Date of birth was removed from the population characteristics to be displayed; only age was used<br>3. Cervical smear: results evaluated with other systems corresponding to the Bethesda system were accepted<br>4. It was emphasized that the investigators had to be experienced with Intrauterine device (IUD)/ Intra-uterine delivery system (IUS) insertion, and that they must have attended the LCS12 insertion training given by the sponsor<br>5. The need to use back up contraception if switching from progestin only oral contraception or hormone releasing IUS to the study drug was added<br>6. The text describing the use of a condom or another barrier method for contraception at least 7 days before LCS12 removal was reworded. Instructions were included for both prematurely discontinuing subjects and for subjects who complete the study<br>7. Perforations were to be reported as serious adverse events<br>8. As the use of progestogen containing contraceptives may have an effect on peripheral insulin resistance and glucose tolerance, guidance on monitoring blood glucose concentration was added<br>9. A clarification was made regarding the reporting of pregnancies occurring after the end-of-study (EOS): In the LCS12 group, all pregnancies reported up to 12 months after EOS were followed up for the final outcome of the mother and fetus/child<br>10. Further clarification of the definition of dysmenorrhea as an AE was included<br>11. As women with presence or history of venous or arterial thrombotic/thromboembolic events were not allowed in the study, the sentence about making women with history of thromboembolic disorder aware of a possible reoccurrence was removed<br>12. Minor changes implemented to the text due to grammatical or typographical errors. |

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

Limitations of the trial such as small numbers of subjects analysed or technical problems leading to unreliable data.

Decimal places were automatically truncated if last decimal equals zero.

Notes: