



Clinical trial results:

A Multicenter, Randomized, Double-Blind, Parallel-Group, Placebo-Controlled, Study to Evaluate the Efficacy and Safety of PEGylated Interferon Beta-1a (BIIB017) in Subjects With Relapsing Multiple Sclerosis

Summary

| | |
|--------------------------|-------------------------------|
| EudraCT number | 2008-006333-27 |
| Trial protocol | LV EE DE BE NL ES CZ BG GR GB |
| Global end of trial date | 24 October 2013 |

Results information

| | |
|--------------------------------|------------------|
| Result version number | v1 (current) |
| This version publication date | 04 February 2016 |
| First version publication date | 21 February 2015 |

Trial information

Trial identification

| | |
|-----------------------|----------|
| Sponsor protocol code | 105MS301 |
|-----------------------|----------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT00906399 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | Biogen Idec |
| Sponsor organisation address | 225 Binney Street, Cambridge, United States, 02142 |
| Public contact | Biogen Idec Study Medical Director, Biogen Idec, Clinicaltrials@biogenidec.com |
| Scientific contact | Biogen Idec Study Medical Director, Biogen Idec, Clinicaltrials@biogenidec.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 | 24 October 2013 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 24 October 2013 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

The primary objective of this study is to determine the efficacy of peginterferon beta-1a in reducing the annualized relapse rate (ARR) in subjects with relapsing multiple sclerosis (RMS) at 1 year. The secondary objectives of this study are to determine whether peginterferon beta-1a, at 1 year when compared with placebo, is effective in reducing the total number of new or newly enlarging T2 hyperintense lesions on brain magnetic resonance imaging (MRI) scans, reducing the proportion of subjects who relapse, and slowing the progression of disability.

Protection of trial subjects:

During the first 6 weeks of treatment year 1 and again in treatment year 2, subjects were to complete dosing in the clinic; thereafter, dosing was to occur at home, and subjects were asked to attend clinic visits for collection of assessment data. If subjects experienced disease progression or relapses and wished to discontinue study treatment, recommended rules for rescue medication (switching to open-label treatment alternative approved MS medications) were defined in the protocol. To mitigate flu-like symptoms, all subjects randomized to receive peginterferon beta-1a treatment started dosing with a lower dose (starting dose of 63 mcg) and increased the dose every 2 weeks to the target dose of 125 mcg. The titration was performed in a blinded fashion. In order to relieve flu-like symptoms for the first 26 weeks in the study, all subjects were instructed to take acetaminophen, ibuprofen, nonsteroidal anti-inflammatory drugs (NSAIDs) or naproxen prior to injection and for the 24 hours following each study treatment injection at the recommended doses and frequencies per local labels. Additional doses of these protocol-designated products could be taken after 24 hours within the maximum daily dosage recommended per local labels.

Background therapy: -

Evidence for comparator: -

| | |
|---|--------------|
| Actual start date of recruitment | 05 June 2009 |
| Long term follow-up planned | No |
| Independent data monitoring committee (IDMC) involvement? | Yes |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|-------------------------|
| Country: Number of subjects enrolled | Canada: 12 |
| Country: Number of subjects enrolled | Chile: 3 |
| Country: Number of subjects enrolled | Colombia: 18 |
| Country: Number of subjects enrolled | Croatia: 14 |
| Country: Number of subjects enrolled | Georgia: 19 |
| Country: Number of subjects enrolled | India: 170 |
| Country: Number of subjects enrolled | Mexico: 25 |
| Country: Number of subjects enrolled | New Zealand: 18 |
| Country: Number of subjects enrolled | Peru: 25 |
| Country: Number of subjects enrolled | Russian Federation: 145 |

| | |
|--------------------------------------|--------------------|
| Country: Number of subjects enrolled | Serbia: 134 |
| Country: Number of subjects enrolled | Ukraine: 189 |
| Country: Number of subjects enrolled | United States: 41 |
| Country: Number of subjects enrolled | Netherlands: 11 |
| Country: Number of subjects enrolled | Poland: 386 |
| Country: Number of subjects enrolled | Romania: 48 |
| Country: Number of subjects enrolled | Spain: 25 |
| Country: Number of subjects enrolled | United Kingdom: 14 |
| Country: Number of subjects enrolled | Belgium: 11 |
| Country: Number of subjects enrolled | Bulgaria: 70 |
| Country: Number of subjects enrolled | Czech Republic: 38 |
| Country: Number of subjects enrolled | Estonia: 23 |
| Country: Number of subjects enrolled | France: 18 |
| Country: Number of subjects enrolled | Germany: 41 |
| Country: Number of subjects enrolled | Greece: 9 |
| Country: Number of subjects enrolled | Latvia: 9 |
| Worldwide total number of subjects | 1516 |
| EEA total number of subjects | 717 |

Notes:

Subjects enrolled per age group

| | |
|---|------|
| In utero | 0 |
| Preterm newborn - gestational age < 37 wk | 0 |
| Newborns (0-27 days) | 0 |
| Infants and toddlers (28 days-23 months) | 0 |
| Children (2-11 years) | 0 |
| Adolescents (12-17 years) | 0 |
| Adults (18-64 years) | 1516 |
| From 65 to 84 years | 0 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details:

The Screening Visit was to occur within 6 weeks prior to randomization (Baseline). The Screening period was to start on the day the subject signed the informed consent form (ICF).

Period 1

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

Arms

| | |
|------------------------------|-----------------|
| Are arms mutually exclusive? | Yes |
| Arm title | Year 1: Placebo |

Arm description:

Placebo every 2 weeks for 48 weeks.

| | |
|--|--|
| Arm type | Placebo |
| Investigational medicinal product name | Placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Solution for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

0.5 mL pre-filled syringes, self-administered by subcutaneous injection

| | |
|------------------|-----------------------------------|
| Arm title | Year 1: Peginterferon Beta-1a Q4W |
|------------------|-----------------------------------|

Arm description:

125 mcg peginterferon beta-1a subcutaneously every 4 weeks (Q4W) for 48 weeks. Subjects received a placebo injection 2 weeks after each active injection (in order to maintain the blind with the Q2W arm).

| | |
|--|---|
| Arm type | Experimental |
| Investigational medicinal product name | PEGylated interferon beta-1a |
| Investigational medicinal product code | BIIB017 |
| Other name | interferon beta-1a, Plegridy, PEG IFN β -1a |
| Pharmaceutical forms | Solution for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

0.5 mL of 0.25 mg/mL (125 mcg dose), self-administered by subcutaneous injection

| | |
|--|--|
| Investigational medicinal product name | Placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Solution for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

0.5 mL pre-filled syringes, self-administered by subcutaneous injection.

| | |
|------------------|-----------------------------------|
| Arm title | Year 1: Peginterferon Beta-1a Q2W |
|------------------|-----------------------------------|

Arm description:

125 mcg peginterferon beta-1a subcutaneously every 2 weeks (Q2W) for 48 weeks.

| | |
|--|---|
| Arm type | Experimental |
| Investigational medicinal product name | PEGylated interferon beta-1a |
| Investigational medicinal product code | BIIB017 |
| Other name | interferon beta-1a, Plegridy, PEG IFN β -1a |
| Pharmaceutical forms | Solution for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

0.5 mL of 0.25 mg/mL (125 mcg dose), self administered by subcutaneous injection.

| Number of subjects in period 1 ^[1] | Year 1: Placebo | Year 1: Peginterferon Beta-1a Q4W | Year 1: Peginterferon Beta-1a Q2W |
|---|-----------------|-----------------------------------|-----------------------------------|
| | Started | 500 | 500 |
| Completed Year 1 Study Treatment | 456 | 438 | 438 ^[2] |
| Completed | 456 | 438 | 439 |
| Not completed | 44 | 62 | 73 |
| Adverse event, serious fatal | 2 | 1 | 1 |
| Consent withdrawn by subject | 30 | 32 | 36 |
| Physician decision | - | 1 | 3 |
| Adverse event, non-fatal | 4 | 22 | 24 |
| Not specified | 4 | 2 | 7 |
| Lost to follow-up | 4 | 4 | 2 |

Notes:

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

Justification: All efficacy endpoints were evaluated on the intent-to-treat (ITT) population, defined as all subjects who were randomized and received at least 1 dose of study treatment (peginterferon beta-1a or placebo). The 1512 subjects who received at least 1 dose of study treatment comprised the ITT and safety population, and are presented in this subject disposition.

[2] - The number of subjects at this milestone seems inconsistent with the number of subjects in the arm. It is expected that the number of subjects will be greater than, or equal to the number that completed, minus those who left.

Justification: 1 subject in the Year 1: Peginterferon Beta-1a Q2W arm discontinued treatment before end of study period but remained to complete follow-up.

Period 2

| | |
|------------------------------|--|
| Period 2 title | Treatment Year 2 |
| Is this the baseline period? | No |
| Allocation method | Randomised - controlled |
| Blinding used | Double blind |
| Roles blinded | Subject, Investigator, Monitor, Assessor |

Arms

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

| | |
|--|---|
| Arm title | Year 2: Placebo Followed by Peginterferon Beta-1a Q4W |
| Arm description: Subjects from Year 1 Placebo group were re-randomized to receive peginterferon beta-1a treatment with 125 mcg peginterfeon beta-1a subcutaneously every 4 weeks (Q4W) for 48 weeks. Subjects received a placebo injection 2 weeks after each active injection (in order to maintain the blind with the Q2W arm). | |
| Arm type | Experimental |
| Investigational medicinal product name | PEGylated interferon beta-1a |
| Investigational medicinal product code | BIIB017 |
| Other name | interferon beta-1a, Plegridy, PEG IFN β -1a |
| Pharmaceutical forms | Solution for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |

| | |
|---|--|
| Dosage and administration details: 0.5 mL of 0.25 mg/mL (125 mcg dose), self-administered by subcutaneous injection. | |
| Investigational medicinal product name | Placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Solution for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |

| | |
|--|--|
| Dosage and administration details: 0.5 mL pre-filled syringes, self-administered by subcutaneous injection. | |
|--|--|

| | |
|--|---|
| Arm title | Year 2: Placebo Followed by Peginterferon Beta-1a Q2W |
| Arm description: Subjects from Year 1 Placebo group were re-randomized to receive peginterferon beta-1a treatment with 125 mcg peginterferon beta-1a subcutaneously every 2 weeks (Q2W) for 48 weeks. | |
| Arm type | Experimental |
| Investigational medicinal product name | PEGylated interferon beta-1a |
| Investigational medicinal product code | BIIB017 |
| Other name | interferon beta-1a, Plegridy, PEG IFN β -1a |
| Pharmaceutical forms | Solution for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |

| | |
|---|--|
| Dosage and administration details: 0.5 mL of 0.25 mg/mL (125 mcg dose), self administered by subcutaneous injection. | |
|---|--|

| | |
|---|---|
| Arm title | Year 2: Peginterferon Beta-1a Q4W |
| Arm description: 125 mcg peginterferon beta-1a subcutaneously every 4 weeks (Q4W) for 48 weeks. Subjects received a placebo injection 2 weeks after each active injection (in order to maintain the blind with the Q2W arm). | |
| Arm type | Experimental |
| Investigational medicinal product name | PEGylated interferon beta-1a |
| Investigational medicinal product code | BIIB017 |
| Other name | interferon beta-1a, Plegridy, PEG IFN β -1a |
| Pharmaceutical forms | Solution for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |

| | |
|---|--|
| Dosage and administration details: 0.5 mL of 0.25 mg/mL (125 mcg dose), self-administered by subcutaneous injection. | |
|---|--|

| | |
|--|--|
| Investigational medicinal product name | Placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Solution for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |

| | |
|---|--|
| Dosage and administration details: 0.5 mL pre-filled syringes, self-administered by subcutaneous injection | |
|---|--|

| | |
|--|---|
| Arm title | Year 2: Peginterferon Beta-1a Q2W |
| Arm description: 125 mcg peginterferon beta-1a subcutaneously every 2 weeks (Q2W) for 48 weeks. | |
| Arm type | Experimental |
| Investigational medicinal product name | PEGylated interferon beta-1a |
| Investigational medicinal product code | BIIB017 |
| Other name | interferon beta-1a, Plegridy, PEG IFN β -1a |
| Pharmaceutical forms | Solution for injection in pre-filled syringe |
| Routes of administration | Subcutaneous use |

Dosage and administration details:

0.5 mL of 0.25 mg/mL (125 mcg dose), self administered by subcutaneous injection.

| Number of subjects in period 2^[3] | Year 2: Placebo Followed by Peginterferon Beta-1a Q4W | Year 2: Placebo Followed by Peginterferon Beta-1a Q2W | Year 2: Peginterferon Beta-1a Q4W |
|---|---|---|-----------------------------------|
| Started | 228 | 228 | 438 |
| Completed Year 2 Study Treatment | 200 | 196 | 391 |
| Completed | 198 | 193 | 391 |
| Not completed | 30 | 35 | 47 |
| Adverse event, serious fatal | 1 | - | - |
| Consent withdrawn by subject | 17 | 18 | 27 |
| Physician decision | - | 2 | 6 |
| Adverse event, non-fatal | 9 | 8 | 11 |
| Not specified | 2 | 3 | 1 |
| Lost to follow-up | 1 | 4 | 2 |

| Number of subjects in period 2^[3] | Year 2: Peginterferon Beta-1a Q2W |
|---|-----------------------------------|
| Started | 438 |
| Completed Year 2 Study Treatment | 411 |
| Completed | 409 |
| Not completed | 29 |
| Adverse event, serious fatal | 3 |
| Consent withdrawn by subject | 13 |
| Physician decision | 3 |
| Adverse event, non-fatal | 6 |
| Not specified | - |
| Lost to follow-up | 4 |

Notes:

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

Justification: 1 subject in the Year 1: Peginterferon Beta-1a Q2W arm discontinued treatment before end

of study period but remained to complete follow-up. This subject did not enter Year 2 treatment.

Baseline characteristics

Reporting groups

| | |
|---|-----------------------------------|
| Reporting group title | Year 1: Placebo |
| Reporting group description: Placebo every 2 weeks for 48 weeks. | |
| Reporting group title | Year 1: Peginterferon Beta-1a Q4W |
| Reporting group description: 125 mcg peginterferon beta-1a subcutaneously every 4 weeks (Q4W) for 48 weeks. Subjects received a placebo injection 2 weeks after each active injection (in order to maintain the blind with the Q2W arm). | |
| Reporting group title | Year 1: Peginterferon Beta-1a Q2W |
| Reporting group description: 125 mcg peginterferon beta-1a subcutaneously every 2 weeks (Q2W) for 48 weeks. | |

| Reporting group values | Year 1: Placebo | Year 1: Peginterferon Beta- 1a Q4W | Year 1: Peginterferon Beta- 1a Q2W |
|--|-----------------|--|--|
| Number of subjects | 500 | 500 | 512 |
| Age categorical Units: Subjects | | | |
| In utero | 0 | 0 | 0 |
| Preterm newborn infants (gestational age < 37 wks) | 0 | 0 | 0 |
| Newborns (0-27 days) | 0 | 0 | 0 |
| Infants and toddlers (28 days-23 months) | 0 | 0 | 0 |
| Children (2-11 years) | 0 | 0 | 0 |
| Adolescents (12-17 years) | 0 | 0 | 0 |
| Adults (18-64 years) | 500 | 500 | 512 |
| From 65-84 years | 0 | 0 | 0 |
| 85 years and over | 0 | 0 | 0 |
| Age continuous Units: years | | | |
| arithmetic mean | 36.3 | 36.4 | 36.5 |
| standard deviation | ± 9.74 | ± 9.87 | ± 9.8 |
| Gender categorical Units: Subjects | | | |
| Female | 358 | 352 | 361 |
| Male | 142 | 148 | 151 |
| Expanded Disability Status Scale (EDSS) | | | |
| The EDSS measures the disability status of people with multiple sclerosis (MS) on a scale that ranges from 0 to 10. The range of main categories include 0 (normal neurologic exam), to 5 (ambulatory without aid or rest for 200 meters/disability severe enough to impair full daily activities), to 10 (death due to MS). | | | |
| Units: Units on a scale | | | |
| arithmetic mean | 2.44 | 2.48 | 2.47 |
| standard deviation | ± 1.18 | ± 1.244 | ± 1.255 |
| Reporting group values | Total | | |
| Number of subjects | 1512 | | |

| | | | |
|--|------|--|--|
| Age categorical Units: Subjects | | | |
| In utero | 0 | | |
| Preterm newborn infants (gestational age < 37 wks) | 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) | 1512 | | |
| From 65-84 years | 0 | | |
| 85 years and over | 0 | | |
| Age continuous Units: years arithmetic mean standard deviation | - | | |
| Gender categorical Units: Subjects | | | |
| Female | 1071 | | |
| Male | 441 | | |
| Expanded Disability Status Scale (EDSS) | | | |
| The EDSS measures the disability status of people with multiple sclerosis (MS) on a scale that ranges from 0 to 10. The range of main categories include 0 (normal neurologic exam), to 5 (ambulatory without aid or rest for 200 meters/disability severe enough to impair full daily activities), to 10 (death due to MS). | | | |
| Units: Units on a scale arithmetic mean standard deviation | - | | |

End points

End points reporting groups

| | |
|------------------------------|---|
| Reporting group title | Year 1: Placebo |
| Reporting group description: | Placebo every 2 weeks for 48 weeks. |
| Reporting group title | Year 1: Peginterferon Beta-1a Q4W |
| Reporting group description: | 125 mcg peginterferon beta-1a subcutaneously every 4 weeks (Q4W) for 48 weeks. Subjects received a placebo injection 2 weeks after each active injection (in order to maintain the blind with the Q2W arm). |
| Reporting group title | Year 1: Peginterferon Beta-1a Q2W |
| Reporting group description: | 125 mcg peginterferon beta-1a subcutaneously every 2 weeks (Q2W) for 48 weeks. |
| Reporting group title | Year 2: Placebo Followed by Peginterferon Beta-1a Q4W |
| Reporting group description: | Subjects from Year 1 Placebo group were re-randomized to receive peginterferon beta-1a treatment with 125 mcg peginterferon beta-1a subcutaneously every 4 weeks (Q4W) for 48 weeks. Subjects received a placebo injection 2 weeks after each active injection (in order to maintain the blind with the Q2W arm). |
| Reporting group title | Year 2: Placebo Followed by Peginterferon Beta-1a Q2W |
| Reporting group description: | Subjects from Year 1 Placebo group were re-randomized to receive peginterferon beta-1a treatment with 125 mcg peginterferon beta-1a subcutaneously every 2 weeks (Q2W) for 48 weeks. |
| Reporting group title | Year 2: Peginterferon Beta-1a Q4W |
| Reporting group description: | 125 mcg peginterferon beta-1a subcutaneously every 4 weeks (Q4W) for 48 weeks. Subjects received a placebo injection 2 weeks after each active injection (in order to maintain the blind with the Q2W arm). |
| Reporting group title | Year 2: Peginterferon Beta-1a Q2W |
| Reporting group description: | 125 mcg peginterferon beta-1a subcutaneously every 2 weeks (Q2W) for 48 weeks. |

Primary: Annualized Relapse Rate (ARR) at 1 Year

| | |
|------------------------|---|
| End point title | Annualized Relapse Rate (ARR) at 1 Year |
| End point description: | A relapse is defined as new or recurrent neurologic symptoms not associated with fever or infection, lasting for at least 24 hours, and accompanied by new objective neurologic findings. Only relapses confirmed by an independent neurology evaluation committee (INEC) are included in the analysis. Data after participants switched to alternative multiple sclerosis (MS) medications are excluded. Data were analyzed using negative binomial regression, adjusted for baseline Expanded Disability Status Scale (EDSS) score (<4 versus > or = 4), baseline age (<40 versus > or =40 years), and baseline relapse rate (number of relapses in 3 years prior to study entry divided by 3). |
| End point type | Primary |
| End point timeframe: | 1 Year |

| End point values | Year 1: Placebo | Year 1: Peginterferon Beta-1a Q4W | Year 1: Peginterferon Beta-1a Q2W | |
|----------------------------------|------------------------|-----------------------------------|-----------------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 500 | 500 | 512 | |
| Units: Relapses per person-years | | | | |
| number (confidence interval 95%) | 0.397 (0.328 to 0.481) | 0.288 (0.234 to 0.355) | 0.256 (0.206 to 0.318) | |

Statistical analyses

| Statistical analysis title | Statistical Analysis 1 |
|---|---|
| Comparison groups | Year 1: Placebo v Year 1: Peginterferon Beta-1a Q4W |
| Number of subjects included in analysis | 1000 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0114 |
| Method | Negative Binomial Regression |
| Parameter estimate | Rate Ratio |
| Point estimate | 0.725 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.565 |
| upper limit | 0.93 |
| Variability estimate | Standard error of the mean |

| Statistical analysis title | Statistical Analysis 2 |
|---|---|
| Comparison groups | Year 1: Placebo v Year 1: Peginterferon Beta-1a Q2W |
| Number of subjects included in analysis | 1012 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0007 |
| Method | Negative Binomial Regression |
| Parameter estimate | Rate Ratio |
| Point estimate | 0.644 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.5 |
| upper limit | 0.831 |
| Variability estimate | Standard error of the mean |

Secondary: Number of New or Newly Enlarging T2 Hyperintense Lesions at 1 Year

| End point title | Number of New or Newly Enlarging T2 Hyperintense Lesions at |
|------------------------|---|
|------------------------|---|

1 Year

End point description:

Number of new or newly enlarging T2 hyperintense lesions on brain magnetic resonance imaging (MRI) scans. Data observed after participants switched to alternative MS medications are excluded. Adjusted mean is based on negative binomial regression, adjusted for baseline number of T2 lesions.

End point type

Secondary

End point timeframe:

1 Year

| End point values | Year 1: Placebo | Year 1: Peginterferon Beta-1a Q4W | Year 1: Peginterferon Beta-1a Q2W | |
|----------------------------------|--------------------|-----------------------------------|-----------------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 476 ^[1] | 462 ^[2] | 457 ^[3] | |
| Units: lesions | | | | |
| number (confidence interval 95%) | 10.9 (9.6 to 12.5) | 7.9 (6.9 to 9) | 3.6 (3.1 to 4.2) | |

Notes:

[1] - ITT population, with at least 1 post-baseline assessment.

[2] - ITT population, with at least 1 post-baseline assessment.

[3] - ITT population, with at least 1 post-baseline assessment.

Statistical analyses

| Statistical analysis title | Statistical Analysis 1 |
|---|---|
| Comparison groups | Year 1: Placebo v Year 1: Peginterferon Beta-1a Q4W |
| Number of subjects included in analysis | 938 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0008 |
| Method | Negative Binomial Regression |
| Parameter estimate | Lesion Mean Ratio |
| Point estimate | 0.72 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.6 |
| upper limit | 0.87 |
| Variability estimate | Standard error of the mean |

| Statistical analysis title | Statistical Analysis 2 |
|-----------------------------------|---|
| Comparison groups | Year 1: Peginterferon Beta-1a Q2W v Year 1: Placebo |

| | |
|---|------------------------------|
| Number of subjects included in analysis | 933 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | Negative Binomial Regression |
| Parameter estimate | Lesion Mean Ratio |
| Point estimate | 0.33 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.27 |
| upper limit | 0.4 |
| Variability estimate | Standard error of the mean |

Secondary: Proportion of Subjects Relapsed at 1 Year

| | |
|------------------------|---|
| End point title | Proportion of Subjects Relapsed at 1 Year |
| End point description: | A relapse is defined as new or recurrent neurologic symptoms not associated with fever or infection, lasting for at least 24 hours, and accompanied by new objective neurologic findings. Only relapses confirmed by INEC were included in the analysis. Estimated proportion of subjects relapsed is based on the Kaplan-Meier product limit method. |
| End point type | Secondary |
| End point timeframe: | Year 1 |

| End point values | Year 1: Placebo | Year 1: Peginterferon Beta-1a Q4W | Year 1: Peginterferon Beta-1a Q2W | |
|-----------------------------------|-----------------|-----------------------------------|-----------------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 500 | 500 | 512 | |
| Units: Proportion of participants | | | | |
| number (not applicable) | 0.291 | 0.222 | 0.187 | |

Statistical analyses

| | |
|---|---|
| Statistical analysis title | Statistical Analysis 1 |
| Comparison groups | Year 1: Placebo v Year 1: Peginterferon Beta-1a Q4W |
| Number of subjects included in analysis | 1000 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.02 ^[4] |
| Method | Cox Proportion Hazards model |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.74 |

| | |
|----------------------|----------------------------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.57 |
| upper limit | 0.95 |
| Variability estimate | Standard error of the mean |

Notes:

[4] - Based on Cox Proportion Hazards model, adjusted for baseline EDSS (<4 versus > or = 4), age (<40 versus > or = 40 years), baseline relapse rate, and baseline Gd enhancing lesions (presence versus absence).

| | |
|---|---|
| Statistical analysis title | Statistical Analysis 2 |
| Comparison groups | Year 1: Placebo v Year 1: Peginterferon Beta-1a Q2W |
| Number of subjects included in analysis | 1012 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0003 ^[5] |
| Method | Cox Proportion Hazards model |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.61 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.47 |
| upper limit | 0.8 |
| Variability estimate | Standard error of the mean |

Notes:

[5] - Based on Cox Proportion Hazards model, adjusted for baseline EDSS (<4 versus > or = 4), age (<40 versus > or = 40 years), baseline relapse rate, and baseline Gd enhancing lesions (presence versus absence).

Secondary: Estimated Proportion of Subjects With Sustained Disability Progression at 1 Year

| | |
|-----------------|--|
| End point title | Estimated Proportion of Subjects With Sustained Disability Progression at 1 Year |
|-----------------|--|

End point description:

Sustained disability progression is defined as: at least a 1.0 point increase on the EDSS from baseline EDSS > or = 1.0 that is sustained for 12 weeks, or at least a 1.5 point increase on the EDSS from baseline EDSS = 0 that is sustained for 12 weeks. The EDSS measures the disability status of people with MS on a scale that ranges from 0 to 10. The range of main categories include 0 (normal neurologic examination), to 5 (ambulatory without aid or rest for 200 meters/disability severe enough to impair full daily activities), to 10 (death due to MS). Estimated proportion of subjects with progression based on the Kaplan-Meier product limit method.

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

End point timeframe:

1 Year

| End point values | Year 1: Placebo | Year 1: Peginterferon Beta-1a Q4W | Year 1: Peginterferon Beta-1a Q2W | |
|-----------------------------------|-----------------|-----------------------------------|-----------------------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 500 | 500 | 512 | |
| Units: Proportion of participants | | | | |
| number (not applicable) | 0.105 | 0.068 | 0.068 | |

Statistical analyses

| Statistical analysis title | Statistical Analysis 1 |
|---|---|
| Comparison groups | Year 1: Placebo v Year 1: Peginterferon Beta-1a Q4W |
| Number of subjects included in analysis | 1000 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.038 [6] |
| Method | Cox Proportion Hazards model |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.62 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.4 |
| upper limit | 0.97 |
| Variability estimate | Standard error of the mean |

Notes:

[6] - Based on Cox Proportion Hazards model, adjusted for baseline EDSS (<4 versus > or = 4), age (<40 versus > or = 40 years).

| Statistical analysis title | Statistical Analysis 2 |
|---|---|
| Comparison groups | Year 1: Placebo v Year 1: Peginterferon Beta-1a Q2W |
| Number of subjects included in analysis | 1012 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.0383 [7] |
| Method | Cox Proportion Hazards model |
| Parameter estimate | Hazard ratio (HR) |
| Point estimate | 0.62 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.4 |
| upper limit | 0.97 |
| Variability estimate | Standard error of the mean |

Notes:

[7] - Based on Cox Proportion Hazards model, adjusted for baseline EDSS (<4 versus > or = 4), age (<40 versus > or = 40 years).

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Screening through Week 96 (treatment period), plus 4 weeks (+/- 5 days) follow-up

Adverse event reporting additional description:

One subject, randomized to placebo followed by Q4W, received 1 wrong dosing kit during Year 1, and was mistakenly distributed with 1 Q2W kit, therefore receiving study drug in Weeks 20 and 22 instead of placebo. For Year 1 safety tables, this subject was grouped with Q2W, and for Year 2 safety tables, this subject was grouped with Q4W.

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 15.0 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|-----------------|
| Reporting group title | Year 1: Placebo |
|-----------------------|-----------------|

Reporting group description:

Placebo every 2 weeks for 48 weeks.

| | |
|-----------------------|-----------------------------------|
| Reporting group title | Year 1: Peginterferon Beta-1a Q4W |
|-----------------------|-----------------------------------|

Reporting group description:

125 mcg peginterferon beta-1a subcutaneously every 4 weeks (Q4W) for 48 weeks. Subjects received a placebo injection 2 weeks after each active injection (in order to maintain the blind with the Q2W arm).

| | |
|-----------------------|-----------------------------------|
| Reporting group title | Year 1: Peginterferon Beta-1a Q2W |
|-----------------------|-----------------------------------|

Reporting group description:

125 mcg peginterferon beta-1a subcutaneously every 2 weeks (Q2W) for 48 weeks.

| | |
|-----------------------|---|
| Reporting group title | Year 2: Placebo Followed by Peginterferon Beta-1a Q4W |
|-----------------------|---|

Reporting group description:

Subjects from Year 1 Placebo group were re-randomized to receive peginterferon beta-1a treatment with 125 mcg peginterfeon beta-1a subcutaneously every 4 weeks (Q4W) for 48 weeks. Subjects received a placebo injection 2 weeks after each active injection (in order to maintain the blind with the Q2W arm).

| | |
|-----------------------|---|
| Reporting group title | Year 2: Placebo Followed by Peginterferon Beta-1a Q2W |
|-----------------------|---|

Reporting group description:

Subjects from Year 1 Placebo group were re-randomized to receive peginterferon beta-1a treatment with 125 mcg peginterferon beta-1a subcutaneously every 2 weeks (Q2W) for 48 weeks.

| | |
|-----------------------|-----------------------------------|
| Reporting group title | Year 2: Peginterferon Beta-1a Q4W |
|-----------------------|-----------------------------------|

Reporting group description:

125 mcg peginterfeon beta-1a subcutaneously every 4 weeks (Q4W) for 48 weeks. Subjects received a placebo injection 2 weeks after each active injection (in order to maintain the blind with the Q2W arm).

| | |
|-----------------------|-----------------------------------|
| Reporting group title | Year 2: Peginterferon Beta-1a Q2W |
|-----------------------|-----------------------------------|

Reporting group description:

125 mcg peginterferon beta-1a subcutaneously every 2 weeks (Q2W) for 48 weeks.

| Serious adverse events | Year 1: Placebo | Year 1: Peginterferon Beta- 1a Q4W | Year 1: Peginterferon Beta- 1a Q2W |
|---|-------------------|--|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 76 / 499 (15.23%) | 70 / 500 (14.00%) | 55 / 513 (10.72%) |
| number of deaths (all causes) | 2 | 1 | 1 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Benign vulval neoplasm | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Breast cancer | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cervix carcinoma | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Lip and/or oral cavity cancer | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Uterine leiomyoma | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Vascular disorders | | | |
| Deep vein thrombosis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Hypertensive crisis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Shock | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Venous thrombosis limb subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Pregnancy, puerperium and perinatal conditions | | | |
| Abortion incomplete subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Abortion spontaneous subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Ectopic pregnancy subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| General disorders and administration site conditions | | | |
| Chest pain subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Death subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 1 |
| Gait disturbance subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Hyperpyrexia | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Injection site reaction | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Irritability | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Immune system disorders | | | |
| Anaphylactic reaction | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hypersensitivity | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Sarcoidosis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Reproductive system and breast disorders | | | |
| Cervical dysplasia | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Ectropion of cervix | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Endometrial hyperplasia | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Endometriosis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Epididymal cyst | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pelvic adhesions | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Uterine cervical erosion | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Asthma | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Organising pneumonia | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pulmonary embolism | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Psychiatric disorders | | | |
| Conversion disorder | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Depression | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Personality disorder | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Schizophrenia | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Suicidal ideation | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 1 / 500 (0.20%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Investigations | | | |
| Bile duct stone | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Alanine aminotransferase increased | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Haemoglobin decreased | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Transaminases increased | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Injury, poisoning and procedural complications | | | |
| Ankle fracture | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Avulsion fracture | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Concussion | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Craniocerebral injury | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Facial bones fracture | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Fall | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Meniscus lesion | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Multiple injuries | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Radius fracture | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Road traffic accident | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Subdural haematoma | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Tibia fracture | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Congenital, familial and genetic disorders | | | |
| Congenital cystic kidney disease | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cardiac disorders | | | |
| Cardiac failure congestive | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cardiopulmonary failure | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Myocardial infarction | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Nervous system disorders | | | |
| Bulbar palsy | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Ataxia | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Carpal tunnel syndrome | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cerebral ischaemia | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cerebrovascular insufficiency | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Complex partial seizures | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Extrapyramidal disorder | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Grand mal convulsion | | | |

| | | | |
|---|-------------------|------------------|------------------|
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Monoparesis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Multiple sclerosis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Multiple sclerosis relapse | | | |
| subjects affected / exposed | 57 / 499 (11.42%) | 47 / 500 (9.40%) | 34 / 513 (6.63%) |
| occurrences causally related to treatment / all | 1 / 76 | 2 / 61 | 0 / 37 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Neuralgia | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Neuritis cranial | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Neuromyelitis optica | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Paraesthesia | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Paraparesis | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Partial seizures | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Partial seizures with secondary generalisation | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Sciatica | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 2 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Subarachnoid haemorrhage | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| Syncope | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Trigeminal neuralgia | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Uhthoff's phenomenon | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 2 / 2 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Blood and lymphatic system disorders | | | |
| Febrile neutropenia | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Leukopenia | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Thrombocytopenia | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Eye disorders | | | |
| Retinal detachment | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Gastrointestinal disorders | | | |
| Abdominal distension | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Constipation | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Haemorrhoids | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Inguinal hernia | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Intestinal obstruction | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Intestinal strangulation | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Proctalgia | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hepatobiliary disorders | | | |
| Acute hepatic failure | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Cholecystitis acute | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cholelithiasis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Drug-induced liver injury | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hepatic function abnormal | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hepatitis toxic | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Skin and subcutaneous tissue disorders | | | |
| Angioedema | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Decubitus ulcer | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Dermatitis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Urticaria | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Renal and urinary disorders | | | |
| Hydronephrosis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Micturition disorder | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 incontinence | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Endocrine disorders | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| Basedow's disease | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Musculoskeletal and connective tissue disorders | | | |
| Back pain | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Bursitis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Enthesopathy | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Haemarthrosis | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Intervertebral disc disorder | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Intervertebral disc protrusion | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Muscular weakness | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 1 / 500 (0.20%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Osteonecrosis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Osteoporosis | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Patellofemoral pain syndrome | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Sacroiliitis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Infections and infestations | | | |
| Acute sinusitis | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Appendicitis | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Bacterial diarrhoea | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cellulitis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cellulitis gangrenous | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cervicitis | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Chronic sinusitis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cystitis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Dengue fever | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Endometritis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Erysipelas | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastroenteritis viral | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Infected skin ulcer | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Lower respiratory tract infection | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Myometritis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pelvic inflammatory disease | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pneumonia | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 2 / 500 (0.40%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 1 / 2 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pyelonephritis chronic | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Salpingo-oophoritis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Sepsis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |
| Septic shock | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 0 |
| Subcutaneous abscess | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Tonsillitis | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 0 / 500 (0.00%) | 0 / 513 (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 |
| Typhoid fever | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Urinary tract infection | | | |
| subjects affected / exposed | 1 / 499 (0.20%) | 2 / 500 (0.40%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 2 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Urosepsis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 1 / 513 (0.19%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Viral pharyngitis | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Viral tracheitis | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 499 (0.00%) | 0 / 500 (0.00%) | 0 / 513 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Metabolism and nutrition disorders | | | |
| Malnutrition | | | |
| subjects affected / exposed | 0 / 499 (0.00%) | 1 / 500 (0.20%) | 0 / 513 (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 |

| Serious adverse events | Year 2: Placebo Followed by Peginterferon Beta- 1a Q4W | Year 2: Placebo Followed by Peginterferon Beta- 1a Q2W | Year 2: Peginterferon Beta- 1a Q4W |
|--|---|---|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 42 / 227 (18.50%) | 36 / 228 (15.79%) | 67 / 439 (15.26%) |
| number of deaths (all causes) | 1 | 0 | 0 |
| number of deaths resulting from adverse events | 1 | 0 | 0 |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Benign vulval neoplasm | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Breast cancer | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Cervix carcinoma | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Lip and/or oral cavity cancer | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 1 / 1 | 0 / 0 | 0 / 0 |
| Uterine leiomyoma | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Vascular disorders | | | |
| Deep vein thrombosis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hypertensive crisis | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Shock | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Venous thrombosis limb | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pregnancy, puerperium and perinatal conditions | | | |
| Abortion incomplete | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Abortion spontaneous | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Ectopic pregnancy | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|--|-----------------|-----------------|-----------------|
| General disorders and administration site conditions | | | |
| Chest pain | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Death | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gait disturbance | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hyperpyrexia | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Injection site reaction | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Irritability | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Immune system disorders | | | |
| Anaphylactic reaction | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hypersensitivity | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Sarcoidosis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Reproductive system and breast disorders | | | |
| Cervical dysplasia | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Ectropion of cervix | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Endometrial hyperplasia | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Endometriosis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Epididymal cyst | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Pelvic adhesions | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Uterine cervical erosion | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Respiratory, thoracic and mediastinal disorders | | | |
| Asthma | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Organising pneumonia | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pulmonary embolism | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Psychiatric disorders | | | |
| Conversion disorder | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Depression | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Personality disorder | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Schizophrenia | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Suicidal ideation | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Investigations | | | |
| Bile duct stone | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Alanine aminotransferase increased | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Haemoglobin decreased | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Transaminases increased | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Injury, poisoning and procedural complications | | | |
| Ankle fracture | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Avulsion fracture | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Concussion | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Craniocerebral injury | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Facial bones fracture | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Fall | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 2 / 439 (0.46%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 2 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Meniscus lesion | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Multiple injuries | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Radius fracture | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Road traffic accident | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Subdural haematoma | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Tibia fracture | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Congenital, familial and genetic disorders | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| Congenital cystic kidney disease subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cardiac disorders | | | |
| Cardiac failure congestive subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cardiopulmonary failure subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Myocardial infarction subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Nervous system disorders | | | |
| Bulbar palsy subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Ataxia subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Carpal tunnel syndrome subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cerebral ischaemia subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-------------------|------------------|-------------------|
| Cerebrovascular insufficiency | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Complex partial seizures | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Extrapyramidal disorder | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Grand mal convulsion | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Monoparesis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Multiple sclerosis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Multiple sclerosis relapse | | | |
| subjects affected / exposed | 27 / 227 (11.89%) | 21 / 228 (9.21%) | 45 / 439 (10.25%) |
| occurrences causally related to treatment / all | 3 / 31 | 0 / 22 | 2 / 50 |
| deaths causally related to treatment / all | 1 / 1 | 0 / 0 | 0 / 0 |
| Neuralgia | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Neuritis cranial | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Neuromyelitis optica | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Paraesthesia | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Paraparesis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Partial seizures | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Partial seizures with secondary generalisation | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Sciatica | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Subarachnoid haemorrhage | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Syncope | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Trigeminal neuralgia | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Uhthoff's phenomenon | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Blood and lymphatic system disorders | | | |
| Febrile neutropenia | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Leukopenia | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Thrombocytopenia | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Eye disorders | | | |
| Retinal detachment | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Gastrointestinal disorders | | | |
| Abdominal distension | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Constipation | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Haemorrhoids | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Inguinal hernia | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Intestinal obstruction | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Intestinal strangulation | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Proctalgia | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hepatobiliary disorders | | | |
| Acute hepatic failure | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cholecystitis acute | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Cholelithiasis | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Drug-induced liver injury | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Hepatic function abnormal | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 1 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Hepatitis toxic | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Skin and subcutaneous tissue disorders | | | |
| Angioedema | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Decubitus ulcer | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Dermatitis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Urticaria | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Renal and urinary disorders | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| Hydronephrosis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Micturition disorder | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Urinary incontinence | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Endocrine disorders | | | |
| Basedow's disease | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Musculoskeletal and connective tissue disorders | | | |
| Back pain | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Bursitis | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Enthesopathy | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Haemarthrosis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| | | | |
|---|-----------------|-----------------|-----------------|
| Intervertebral disc disorder | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Intervertebral disc protrusion | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 1 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Muscular weakness | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Osteonecrosis | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Osteoporosis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Patellofemoral pain syndrome | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Sacroiliitis | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 1 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Infections and infestations | | | |
| Acute sinusitis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Appendicitis | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Bacterial diarrhoea | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Cellulitis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cellulitis gangrenous | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cervicitis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Chronic sinusitis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Cystitis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Dengue fever | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Endometritis | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Erysipelas | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Gastroenteritis viral | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Infected skin ulcer | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 1 / 228 (0.44%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 1 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Lower respiratory tract infection | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Myometritis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pelvic inflammatory disease | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pneumonia | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Pyelonephritis chronic | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Salpingo-oophoritis | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 0 / 228 (0.00%) | 0 / 439 (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 |
| Sepsis | | | |
| subjects affected / exposed | 1 / 227 (0.44%) | 1 / 228 (0.44%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 1 / 1 | 0 / 2 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Septic shock | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Subcutaneous abscess | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Tonsillitis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Typhoid fever | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Urinary tract infection | | | |

| | | | |
|---|-----------------|-----------------|-----------------|
| subjects affected / exposed | 3 / 227 (1.32%) | 1 / 228 (0.44%) | 1 / 439 (0.23%) |
| occurrences causally related to treatment / all | 1 / 3 | 0 / 4 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Urosepsis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 1 / 228 (0.44%) | 0 / 439 (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 |
| Viral pharyngitis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Viral tracheitis | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Metabolism and nutrition disorders | | | |
| Malnutrition | | | |
| subjects affected / exposed | 0 / 227 (0.00%) | 0 / 228 (0.00%) | 0 / 439 (0.00%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |

| Serious adverse events | Year 2: Peginterferon Beta-1a Q2W | | |
|--|--------------------------------------|--|--|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 39 / 438 (8.90%) | | |
| number of deaths (all causes) | 3 | | |
| number of deaths resulting from adverse events | 1 | | |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Benign vulval neoplasm | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Breast cancer | | | |

| | | | |
|---|-----------------|--|--|
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cervix carcinoma | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Lip and/or oral cavity cancer | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Uterine leiomyoma | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Vascular disorders | | | |
| Deep vein thrombosis | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Hypertensive crisis | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Shock | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Venous thrombosis limb | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pregnancy, puerperium and perinatal conditions | | | |

| | | | |
|--|-----------------|--|--|
| Abortion incomplete | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Abortion spontaneous | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Ectopic pregnancy | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| General disorders and administration site conditions | | | |
| Chest pain | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Death | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 1 | | |
| Gait disturbance | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Hyperpyrexia | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Injection site reaction | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

| | | | |
|---|-----------------|--|--|
| Irritability | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Immune system disorders | | | |
| Anaphylactic reaction | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Hypersensitivity | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Sarcoidosis | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Reproductive system and breast disorders | | | |
| Cervical dysplasia | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Ectropion of cervix | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Endometrial hyperplasia | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Endometriosis | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

| | | | |
|---|-----------------|--|--|
| Epididymal cyst | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pelvic adhesions | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Uterine cervical erosion | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Asthma | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Organising pneumonia | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pulmonary embolism | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Psychiatric disorders | | | |
| Conversion disorder | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Depression | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

| | | | |
|---|-----------------|--|--|
| Personality disorder | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Schizophrenia | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Suicidal ideation | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Investigations | | | |
| Bile duct stone | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Alanine aminotransferase increased | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Haemoglobin decreased | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Transaminases increased | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Injury, poisoning and procedural complications | | | |
| Ankle fracture | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

| | | | | |
|---|-----------------|--|--|--|
| Avulsion fracture | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Concussion | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Craniocerebral injury | | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 1 | | | |
| Facial bones fracture | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Fall | | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Meniscus lesion | | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Multiple injuries | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Radius fracture | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Road traffic accident | | | | |

| | | | |
|---|-----------------|--|--|
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Subdural haematoma | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Tibia fracture | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Congenital, familial and genetic disorders | | | |
| Congenital cystic kidney disease | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cardiac disorders | | | |
| Cardiac failure congestive | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cardiopulmonary failure | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 1 / 1 | | |
| Myocardial infarction | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Nervous system disorders | | | |
| Bulbar palsy | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

| | | | | |
|---|-----------------|--|--|--|
| Ataxia | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Carpal tunnel syndrome | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Cerebral ischaemia | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Cerebrovascular insufficiency | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Complex partial seizures | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Extrapyramidal disorder | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Grand mal convulsion | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Monoparesis | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Multiple sclerosis | | | | |

| | | | |
|---|------------------|--|--|
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Multiple sclerosis relapse | | | |
| subjects affected / exposed | 25 / 438 (5.71%) | | |
| occurrences causally related to treatment / all | 0 / 29 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Neuralgia | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Neuritis cranial | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Neuromyelitis optica | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Paraesthesia | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Paraparesis | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Partial seizures | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Partial seizures with secondary generalisation | | | |

| | | | |
|---|-----------------|--|--|
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Sciatica | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Subarachnoid haemorrhage | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Syncope | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Trigeminal neuralgia | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Uhthoff's phenomenon | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Blood and lymphatic system disorders | | | |
| Febrile neutropenia | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Leukopenia | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Thrombocytopenia | | | |

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|---|-----------------|--|--|
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Eye disorders | | | |
| Retinal detachment | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Gastrointestinal disorders | | | |
| Abdominal distension | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Constipation | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Haemorrhoids | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Inguinal hernia | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Intestinal obstruction | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Intestinal strangulation | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Proctalgia | | | |

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|---|-----------------|--|--|
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Hepatobiliary disorders | | | |
| Acute hepatic failure | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cholecystitis acute | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cholelithiasis | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Drug-induced liver injury | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Hepatic function abnormal | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Hepatitis toxic | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Skin and subcutaneous tissue disorders | | | |
| Angioedema | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Decubitus ulcer | | | |

| | | | |
|--|-----------------|--|--|
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Dermatitis | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Urticaria | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Renal and urinary disorders | | | |
| Hydronephrosis | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Micturition disorder | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Urinary incontinence | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Endocrine disorders | | | |
| Basedow's disease | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Musculoskeletal and connective tissue disorders | | | |
| Back pain | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

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|---|-----------------|--|--|--|
| Bursitis | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Enthesopathy | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Haemarthrosis | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Intervertebral disc disorder | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Intervertebral disc protrusion | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Muscular weakness | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Osteonecrosis | | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | | |
| occurrences causally related to treatment / all | 0 / 1 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Osteoporosis | | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | | |
| occurrences causally related to treatment / all | 0 / 0 | | | |
| deaths causally related to treatment / all | 0 / 0 | | | |
| Patellofemoral pain syndrome | | | | |

| | | | |
|---|-----------------|--|--|
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Sacroiliitis | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Infections and infestations | | | |
| Acute sinusitis | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Appendicitis | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Bacterial diarrhoea | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cellulitis | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cellulitis gangrenous | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cervicitis | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Chronic sinusitis | | | |

| | | | |
|---|-----------------|--|--|
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cystitis | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Dengue fever | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Endometritis | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Erysipelas | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Gastroenteritis viral | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Infected skin ulcer | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Lower respiratory tract infection | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Myometritis | | | |

| | | | |
|---|-----------------|--|--|
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pelvic inflammatory disease | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumonia | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pyelonephritis chronic | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Salpingo-oophoritis | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Sepsis | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Septic shock | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Subcutaneous abscess | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Tonsillitis | | | |

| | | | |
|---|-----------------|--|--|
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Typhoid fever | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Urinary tract infection | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Urosepsis | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Viral pharyngitis | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Viral tracheitis | | | |
| subjects affected / exposed | 1 / 438 (0.23%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Metabolism and nutrition disorders | | | |
| Malnutrition | | | |
| subjects affected / exposed | 0 / 438 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

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

| Non-serious adverse events | Year 1: Placebo | Year 1: Peginterferon Beta- 1a Q4W | Year 1: Peginterferon Beta- 1a Q2W |
|--|---------------------------|--|--|
| Total subjects affected by non-serious adverse events subjects affected / exposed | 378 / 499 (75.75%) | 466 / 500 (93.20%) | 472 / 513 (92.01%) |
| Investigations | | | |
| Body temperature increased subjects affected / exposed occurrences (all) | 27 / 499 (5.41%) 24 | 51 / 500 (10.20%) 142 | 60 / 513 (11.70%) 228 |
| Alanine aminotransferase increased subjects affected / exposed occurrences (all) | 13 / 499 (2.61%) 13 | 19 / 500 (3.80%) 22 | 29 / 513 (5.65%) 34 |
| Nervous system disorders | | | |
| Headache subjects affected / exposed occurrences (all) | 165 / 499 (33.07%) 778 | 206 / 500 (41.20%) 1143 | 225 / 513 (43.86%) 1415 |
| Multiple sclerosis relapse subjects affected / exposed occurrences (all) | 154 / 499 (30.86%) 200 | 111 / 500 (22.20%) 133 | 90 / 513 (17.54%) 123 |
| Dizziness subjects affected / exposed occurrences (all) | 30 / 499 (6.01%) 45 | 22 / 500 (4.40%) 49 | 35 / 513 (6.82%) 85 |
| Paraesthesia subjects affected / exposed occurrences (all) | 23 / 499 (4.61%) 42 | 22 / 500 (4.40%) 31 | 26 / 513 (5.07%) 35 |
| Hypoaesthesia subjects affected / exposed occurrences (all) | 30 / 499 (6.01%) 46 | 29 / 500 (5.80%) 39 | 17 / 513 (3.31%) 38 |
| General disorders and administration site conditions | | | |
| Injection site erythema subjects affected / exposed occurrences (all) | 33 / 499 (6.61%) 67 | 282 / 500 (56.40%) 1716 | 315 / 513 (61.40%) 3300 |
| Influenza like illness subjects affected / exposed occurrences (all) | 63 / 499 (12.63%) 335 | 234 / 500 (46.80%) 1629 | 238 / 513 (46.39%) 2492 |

| | | | |
|-----------------------------|-------------------|--------------------|--------------------|
| Pyrexia | | | |
| subjects affected / exposed | 75 / 499 (15.03%) | 218 / 500 (43.60%) | 227 / 513 (44.25%) |
| occurrences (all) | 211 | 1150 | 1578 |
| Chills | | | |
| subjects affected / exposed | 23 / 499 (4.61%) | 92 / 500 (18.40%) | 88 / 513 (17.15%) |
| occurrences (all) | 67 | 419 | 379 |
| Injection site pain | | | |
| subjects affected / exposed | 15 / 499 (3.01%) | 67 / 500 (13.40%) | 78 / 513 (15.20%) |
| occurrences (all) | 18 | 148 | 287 |
| Asthenia | | | |
| subjects affected / exposed | 38 / 499 (7.62%) | 70 / 500 (14.00%) | 68 / 513 (13.26%) |
| occurrences (all) | 117 | 248 | 316 |
| Injection site pruritus | | | |
| subjects affected / exposed | 6 / 499 (1.20%) | 56 / 500 (11.20%) | 70 / 513 (13.65%) |
| occurrences (all) | 19 | 130 | 328 |
| Fatigue | | | |
| subjects affected / exposed | 49 / 499 (9.82%) | 55 / 500 (11.00%) | 52 / 513 (10.14%) |
| occurrences (all) | 87 | 125 | 153 |
| Pain | | | |
| subjects affected / exposed | 16 / 499 (3.21%) | 29 / 500 (5.80%) | 25 / 513 (4.87%) |
| occurrences (all) | 77 | 84 | 69 |
| Hyperthermia | | | |
| subjects affected / exposed | 5 / 499 (1.00%) | 26 / 500 (5.20%) | 22 / 513 (4.29%) |
| occurrences (all) | 25 | 155 | 132 |
| Ear and labyrinth disorders | | | |
| Vertigo | | | |
| subjects affected / exposed | 43 / 499 (8.62%) | 32 / 500 (6.40%) | 27 / 513 (5.26%) |
| occurrences (all) | 74 | 46 | 73 |
| Gastrointestinal disorders | | | |
| Nausea | | | |
| subjects affected / exposed | 31 / 499 (6.21%) | 43 / 500 (8.60%) | 45 / 513 (8.77%) |
| occurrences (all) | 52 | 88 | 105 |
| Vomiting | | | |
| subjects affected / exposed | 11 / 499 (2.20%) | 37 / 500 (7.40%) | 26 / 513 (5.07%) |
| occurrences (all) | 15 | 63 | 35 |
| Diarrhoea | | | |

| | | | |
|--|--------------------------|--------------------------|--------------------------|
| subjects affected / exposed occurrences (all) | 23 / 499 (4.61%) 28 | 22 / 500 (4.40%) 26 | 18 / 513 (3.51%) 19 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Oropharyngeal pain subjects affected / exposed occurrences (all) | 31 / 499 (6.21%) 44 | 26 / 500 (5.20%) 37 | 34 / 513 (6.63%) 56 |
| Cough subjects affected / exposed occurrences (all) | 28 / 499 (5.61%) 34 | 26 / 500 (5.20%) 35 | 21 / 513 (4.09%) 29 |
| Psychiatric disorders | | | |
| Depression subjects affected / exposed occurrences (all) | 21 / 499 (4.21%) 21 | 25 / 500 (5.00%) 28 | 22 / 513 (4.29%) 28 |
| Insomnia subjects affected / exposed occurrences (all) | 19 / 499 (3.81%) 29 | 18 / 500 (3.60%) 28 | 28 / 513 (5.46%) 49 |
| Musculoskeletal and connective tissue disorders | | | |
| Myalgia subjects affected / exposed occurrences (all) | 30 / 499 (6.01%) 96 | 97 / 500 (19.40%) 396 | 99 / 513 (19.30%) 661 |
| Back pain subjects affected / exposed occurrences (all) | 57 / 499 (11.42%) 126 | 64 / 500 (12.80%) 132 | 62 / 513 (12.09%) 132 |
| Arthralgia subjects affected / exposed occurrences (all) | 35 / 499 (7.01%) 54 | 54 / 500 (10.80%) 170 | 58 / 513 (11.31%) 296 |
| Pain in extremity subjects affected / exposed occurrences (all) | 48 / 499 (9.62%) 87 | 53 / 500 (10.60%) 107 | 44 / 513 (8.58%) 110 |
| Muscular weakness subjects affected / exposed occurrences (all) | 18 / 499 (3.61%) 20 | 23 / 500 (4.60%) 45 | 22 / 513 (4.29%) 33 |
| Infections and infestations | | | |
| Nasopharyngitis subjects affected / exposed occurrences (all) | 77 / 499 (15.43%) 121 | 69 / 500 (13.80%) 105 | 54 / 513 (10.53%) 95 |

| | | | |
|---|------------------------|------------------------|------------------------|
| Urinary tract infection subjects affected / exposed occurrences (all) | 20 / 499 (4.01%) 29 | 28 / 500 (5.60%) 39 | 28 / 513 (5.46%) 38 |
| Upper respiratory tract infection subjects affected / exposed occurrences (all) | 27 / 499 (5.41%) 41 | 16 / 500 (3.20%) 22 | 28 / 513 (5.46%) 37 |

| Non-serious adverse events | Year 2: Placebo Followed by Peginterferon Beta- 1a Q4W | Year 2: Placebo Followed by Peginterferon Beta- 1a Q2W | Year 2: Peginterferon Beta- 1a Q4W |
|---|---|---|--|
| Total subjects affected by non-serious adverse events subjects affected / exposed | 190 / 227 (83.70%) | 206 / 228 (90.35%) | 373 / 439 (84.97%) |
| Investigations | | | |
| Body temperature increased subjects affected / exposed occurrences (all) | 5 / 227 (2.20%) 22 | 10 / 228 (4.39%) 63 | 19 / 439 (4.33%) 67 |
| Alanine aminotransferase increased subjects affected / exposed occurrences (all) | 13 / 227 (5.73%) 16 | 14 / 228 (6.14%) 15 | 17 / 439 (3.87%) 26 |
| Nervous system disorders | | | |
| Headache subjects affected / exposed occurrences (all) | 70 / 227 (30.84%) 278 | 64 / 228 (28.07%) 516 | 122 / 439 (27.79%) 699 |
| Multiple sclerosis relapse subjects affected / exposed occurrences (all) | 50 / 227 (22.03%) 57 | 52 / 228 (22.81%) 63 | 95 / 439 (21.64%) 125 |
| Dizziness subjects affected / exposed occurrences (all) | 0 / 227 (0.00%) 0 | 0 / 228 (0.00%) 0 | 0 / 439 (0.00%) 0 |
| Paraesthesia subjects affected / exposed occurrences (all) | 0 / 227 (0.00%) 0 | 0 / 228 (0.00%) 0 | 0 / 439 (0.00%) 0 |
| Hypoaesthesia subjects affected / exposed occurrences (all) | 13 / 227 (5.73%) 27 | 11 / 228 (4.82%) 17 | 10 / 439 (2.28%) 22 |
| General disorders and administration site conditions | | | |

| | | | |
|--|---------------------------|----------------------------|----------------------------|
| Injection site erythema subjects affected / exposed occurrences (all) | 119 / 227 (52.42%) 773 | 135 / 228 (59.21%) 1521 | 211 / 439 (48.06%) 1426 |
| Influenza like illness subjects affected / exposed occurrences (all) | 95 / 227 (41.85%) 733 | 106 / 228 (46.49%) 1290 | 199 / 439 (45.33%) 1526 |
| Pyrexia subjects affected / exposed occurrences (all) | 66 / 227 (29.07%) 362 | 66 / 228 (28.95%) 434 | 138 / 439 (31.44%) 804 |
| Chills subjects affected / exposed occurrences (all) | 28 / 227 (12.33%) 91 | 29 / 228 (12.72%) 157 | 52 / 439 (11.85%) 252 |
| Injection site pain subjects affected / exposed occurrences (all) | 25 / 227 (11.01%) 73 | 25 / 228 (10.96%) 71 | 32 / 439 (7.29%) 77 |
| Asthenia subjects affected / exposed occurrences (all) | 24 / 227 (10.57%) 105 | 10 / 228 (4.39%) 48 | 39 / 439 (8.88%) 137 |
| Injection site pruritus subjects affected / exposed occurrences (all) | 17 / 227 (7.49%) 58 | 26 / 228 (11.40%) 130 | 24 / 439 (5.47%) 63 |
| Fatigue subjects affected / exposed occurrences (all) | 10 / 227 (4.41%) 18 | 21 / 228 (9.21%) 71 | 26 / 439 (5.92%) 88 |
| Pain subjects affected / exposed occurrences (all) | 0 / 227 (0.00%) 0 | 0 / 228 (0.00%) 0 | 0 / 439 (0.00%) 0 |
| Hyperthermia subjects affected / exposed occurrences (all) | 0 / 227 (0.00%) 0 | 0 / 228 (0.00%) 0 | 0 / 439 (0.00%) 0 |
| Ear and labyrinth disorders Vertigo subjects affected / exposed occurrences (all) | 9 / 227 (3.96%) 18 | 11 / 228 (4.82%) 17 | 17 / 439 (3.87%) 29 |
| Gastrointestinal disorders | | | |

| | | | |
|---|--------------------------|--------------------------|--------------------------|
| Nausea subjects affected / exposed occurrences (all) | 9 / 227 (3.96%) 18 | 14 / 228 (6.14%) 37 | 16 / 439 (3.64%) 24 |
| Vomiting subjects affected / exposed occurrences (all) | 0 / 227 (0.00%) 0 | 0 / 228 (0.00%) 0 | 0 / 439 (0.00%) 0 |
| Diarrhoea subjects affected / exposed occurrences (all) | 0 / 227 (0.00%) 0 | 0 / 228 (0.00%) 0 | 0 / 439 (0.00%) 0 |
| Respiratory, thoracic and mediastinal disorders Oropharyngeal pain subjects affected / exposed occurrences (all) | 0 / 227 (0.00%) 0 | 0 / 228 (0.00%) 0 | 0 / 439 (0.00%) 0 |
| Cough subjects affected / exposed occurrences (all) | 0 / 227 (0.00%) 0 | 0 / 228 (0.00%) 0 | 0 / 439 (0.00%) 0 |
| Psychiatric disorders Depression subjects affected / exposed occurrences (all) | 6 / 227 (2.64%) 6 | 13 / 228 (5.70%) 14 | 18 / 439 (4.10%) 19 |
| Insomnia subjects affected / exposed occurrences (all) | 0 / 227 (0.00%) 0 | 0 / 228 (0.00%) 0 | 0 / 439 (0.00%) 0 |
| Musculoskeletal and connective tissue disorders Myalgia subjects affected / exposed occurrences (all) | 27 / 227 (11.89%) 89 | 27 / 228 (11.84%) 481 | 60 / 439 (13.67%) 154 |
| Back pain subjects affected / exposed occurrences (all) | 11 / 227 (4.85%) 130 | 19 / 228 (8.33%) 18 | 31 / 439 (7.06%) 69 |
| Arthralgia subjects affected / exposed occurrences (all) | 23 / 227 (10.13%) 114 | 14 / 228 (6.14%) 61 | 33 / 439 (7.52%) 58 |
| Pain in extremity subjects affected / exposed occurrences (all) | 10 / 227 (4.41%) 17 | 14 / 228 (6.14%) 53 | 23 / 439 (5.24%) 45 |

| | | | |
|---|------------------------|------------------------|-------------------------|
| Muscular weakness subjects affected / exposed occurrences (all) | 12 / 227 (5.29%) 25 | 12 / 228 (5.26%) 34 | 18 / 439 (4.10%) 40 |
| Infections and infestations | | | |
| Nasopharyngitis subjects affected / exposed occurrences (all) | 22 / 227 (9.69%) 29 | 17 / 228 (7.46%) 32 | 45 / 439 (10.25%) 56 |
| Urinary tract infection subjects affected / exposed occurrences (all) | 10 / 227 (4.41%) 11 | 11 / 228 (4.82%) 18 | 31 / 439 (7.06%) 37 |
| Upper respiratory tract infection subjects affected / exposed occurrences (all) | 0 / 227 (0.00%) 0 | 0 / 228 (0.00%) 0 | 0 / 439 (0.00%) 0 |

| | | | |
|---|--|--|--|
| Non-serious adverse events | Year 2: Peginterferon Beta- 1a Q2W | | |
| Total subjects affected by non-serious adverse events subjects affected / exposed | 367 / 438 (83.79%) | | |
| Investigations | | | |
| Body temperature increased subjects affected / exposed occurrences (all) | 24 / 438 (5.48%) 128 | | |
| Alanine aminotransferase increased subjects affected / exposed occurrences (all) | 13 / 438 (2.97%) 19 | | |
| Nervous system disorders | | | |
| Headache subjects affected / exposed occurrences (all) | 126 / 438 (28.77%) 1000 | | |
| Multiple sclerosis relapse subjects affected / exposed occurrences (all) | 63 / 438 (14.38%) 81 | | |
| Dizziness subjects affected / exposed occurrences (all) | 0 / 438 (0.00%) 0 | | |
| Paraesthesia | | | |

| | | | |
|---|----------------------------|--|--|
| subjects affected / exposed occurrences (all) | 0 / 438 (0.00%) 0 | | |
| Hypoaesthesia subjects affected / exposed occurrences (all) | 11 / 438 (2.51%) 20 | | |
| General disorders and administration site conditions | | | |
| Injection site erythema subjects affected / exposed occurrences (all) | 212 / 438 (48.40%) 2981 | | |
| Influenza like illness subjects affected / exposed occurrences (all) | 192 / 438 (43.84%) 2384 | | |
| Pyrexia subjects affected / exposed occurrences (all) | 136 / 438 (31.05%) 1070 | | |
| Chills subjects affected / exposed occurrences (all) | 41 / 438 (9.36%) 203 | | |
| Injection site pain subjects affected / exposed occurrences (all) | 45 / 438 (10.27%) 172 | | |
| Asthenia subjects affected / exposed occurrences (all) | 40 / 438 (9.13%) 226 | | |
| Injection site pruritus subjects affected / exposed occurrences (all) | 47 / 438 (10.73%) 323 | | |
| Fatigue subjects affected / exposed occurrences (all) | 32 / 438 (7.31%) 150 | | |
| Pain subjects affected / exposed occurrences (all) | 0 / 438 (0.00%) 0 | | |
| Hyperthermia | | | |

| | | | |
|---|---|--|--|
| subjects affected / exposed occurrences (all) | 0 / 438 (0.00%) 0 | | |
| Ear and labyrinth disorders Vertigo subjects affected / exposed occurrences (all) | 14 / 438 (3.20%) 22 | | |
| Gastrointestinal disorders Nausea subjects affected / exposed occurrences (all) Vomiting subjects affected / exposed occurrences (all) Diarrhoea subjects affected / exposed occurrences (all) | 27 / 438 (6.16%) 102 0 / 438 (0.00%) 0 0 / 438 (0.00%) 0 | | |
| Respiratory, thoracic and mediastinal disorders Oropharyngeal pain subjects affected / exposed occurrences (all) Cough subjects affected / exposed occurrences (all) | 0 / 438 (0.00%) 0 0 / 438 (0.00%) 0 | | |
| Psychiatric disorders Depression subjects affected / exposed occurrences (all) Insomnia subjects affected / exposed occurrences (all) | 17 / 438 (3.88%) 24 0 / 438 (0.00%) 0 | | |
| Musculoskeletal and connective tissue disorders Myalgia subjects affected / exposed occurrences (all) Back pain | 58 / 438 (13.24%) 309 | | |

| | | | |
|---|-------------------------|--|--|
| subjects affected / exposed occurrences (all) | 32 / 438 (7.31%) 69 | | |
| Arthralgia subjects affected / exposed occurrences (all) | 33 / 438 (7.53%) 254 | | |
| Pain in extremity subjects affected / exposed occurrences (all) | 31 / 438 (7.08%) 64 | | |
| Muscular weakness subjects affected / exposed occurrences (all) | 13 / 438 (2.97%) 33 | | |
| Infections and infestations | | | |
| Nasopharyngitis subjects affected / exposed occurrences (all) | 47 / 438 (10.73%) 64 | | |
| Urinary tract infection subjects affected / exposed occurrences (all) | 29 / 438 (6.62%) 39 | | |
| Upper respiratory tract infection subjects affected / exposed occurrences (all) | 0 / 438 (0.00%) 0 | | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|-----------------|---|
| 27 October 2009 | The protocol was revised primarily to clarify study procedures and some of the description of the statistical analysis methods. |
| 16 April 2010 | The protocol was revised primarily to adjust the holding and stopping rules for study treatment dosing. The language regarding the monitoring of hepatic safety was strengthened following an in depth review of the safety experience for interferons, including interferon beta-1a. Thus, the guidelines (Table 1, Laboratory Criteria Requiring Withholding or Permanent Discontinuation of Blinded Study Treatment with BIIB017/Placebo) for re-starting study treatment after a >5 fold elevation in transaminases (ALT and AST) were added to the study Holding and Stopping rules. |
| 14 March 2011 | <p>The protocol was revised primarily to increase the study sample size. The number of planned subjects was increased from 1260 subjects to approximately 1500 subjects. As permitted by the protocol, the pooled 1-year annualized relapse rate was monitored and the placebo 1-year annualized relapse rate was estimated by back-calculating from the pooled annualized relapse rate, and the assumed treatment effect. As a result of this monitoring, the sample size was increased from 420 to 500 subjects per treatment group.</p> <p>The planned sample sizes for PK/PD sample collections were accordingly increased.</p> <p>Inclusion Criterion No. 2 was updated. The age limit for subject inclusion into the study was increased to optimize enrollment and to better reflect the age range of the treated MS population.</p> <p>The Exclusion Criterion No. 11, known history or positive test results for hepatitis was updated in order to prevent the inappropriate exclusion of patients from the study. Testing for HBsAb was added as a screening assessment to determine if a patient had cleared a hepatitis B infection. Based on the CDC's interpretation of the hepatitis B serology panel (CDC, 2007), subjects who were positive for HBcAb would now only be excluded if they were also negative for HBsAb IgG. Subjects who were positive for HCV Ab were to continue to be excluded from the study, as were all subjects who were positive for HBsAg.</p> <p>Exclusion Criterion No. 16, which provides a table of treatment agents that were prohibited for eligibility, was modified to include the recently approved MS therapy, fingolimod.</p> |
| 27 March 2012 | <p>The protocol was revised primarily to move the MSIS-29 outcome measure from the secondary objectives to the additional objectives. Unlike the other specified primary and secondary objectives and endpoints (measures of relapses, MRI lesions, and disease progression), the MSIS-29, a patient reported measure of health status, has not yet been fully established as a direct measure of MS disease activity. As such, inclusion of this assessment in the key secondary endpoints may not be appropriate.</p> <p>Analysis for Primary Endpoint, EDSS (≤ 3.5 or > 3.5) was changed to (< 4 and ≥ 4) for clarity. Given the ordinal nature of the EDSS scale, the revised cutoff is logically equivalent to that previously described; therefore, this change doesn't affect the analysis methods.</p> |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported

Online references

<http://www.ncbi.nlm.nih.gov/pubmed/24794721>