



Clinical trial results:

A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Efficacy, Safety, and Pharmacokinetics of Brachial Plexus Block with EXPAREL for Postsurgical Analgesia in Subjects Undergoing Total Shoulder Arthroplasty or Rotator Cuff Repair

Summary

| | |
|--------------------------|----------------|
| EudraCT number | 2015-005228-24 |
| Trial protocol | BE DK |
| Global end of trial date | 07 July 2017 |

Results information

| | |
|--------------------------------|---------------|
| Result version number | v1 (current) |
| This version publication date | 10 April 2021 |
| First version publication date | 10 April 2021 |

Trial information

Trial identification

| | |
|-----------------------|-----------|
| Sponsor protocol code | 402-C-327 |
|-----------------------|-----------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT02713230 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | Pacira Pharmaceuticals, Inc. |
| Sponsor organisation address | 5 Sylvan Way, Parsippany, United States, 07054 |
| Public contact | Clinical Research Director, Pacira Pharmaceuticals, Inc., +1 855-793-9727 , medinfo@pacira.com |
| Scientific contact | Clinical Research Director, Pacira Pharmaceuticals, Inc., +1 855-793-9727 , medinfo@pacira.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 | 07 July 2017 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 07 July 2017 |
| 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 evaluate the magnitude and duration of the analgesic effect achieved following single-dose injection brachial plexus block with EXPAREL in subjects undergoing primary unilateral total shoulder arthroplasty or rotator cuff repair.

Protection of trial subjects:

Initially, unblinded review of the data and a relative risk analysis were to be conducted if any of the following, based on the incidence rate, were identified during blinded data review:

- Severe or serious AE of special interest (AESI), including cardiac AESI and neurologic AESI exceeding 5% and in at least 5 subjects
- Severe dizziness exceeding 10% or in at least 5 subjects
- Severe AEs or serious AEs (SAEs), regardless of relationship to study drug, exceeding 20% or in at least 10 subjects

If the risk relative to placebo was greater than 2, the study was to be either permanently stopped or the study eligibility criteria were to be revised to exclude subjects who were at a higher risk for a particular AE.

After review of the Study Stopping Rules with the FDA (05-Jan-2017), these were changed as follows:

- Incidence rate of severe or serious AESIs as defined by the protocol including cardiac AESIs and neurologic AESIs exceeding 5% or in at least 5 subjects
- Incidence rate of severe dizziness exceeding 10% or in at least 5 subjects

Background therapy: -

Evidence for comparator: -

| | |
|---|---------------|
| Actual start date of recruitment | 01 April 2016 |
| 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 | Belgium: 19 |
| Country: Number of subjects enrolled | Denmark: 21 |
| Country: Number of subjects enrolled | United States: 115 |
| Worldwide total number of subjects | 155 |
| EEA total number of subjects | 40 |

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) | 103 |
| From 65 to 84 years | 52 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

Participants were recruited between May 9, 2016 and July 7, 2017 at 16 sites in the US and Europe.

Pre-assignment

Screening details:

"Started" does not include one patient who was a screen failure, was not enrolled, and was randomized to placebo in error.

Period 1

| | |
|------------------------------|---|
| Period 1 title | Overall Trial (overall period) |
| Is this the baseline period? | Yes |
| Allocation method | Randomised - controlled |
| Blinding used | Double blind |
| Roles blinded | Subject, Investigator, Monitor, Data analyst, Carer, Assessor |

Arms

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

| | |
|------------------|----------------|
| Arm title | EXPAREL 133 mg |
|------------------|----------------|

Arm description:

10 mL EXPAREL (bupivacaine liposome injectable suspension) expanded with 10 mL normal saline as single-injection brachial plexus block (interscalene or supraclavicular) ≥ 1 h preoperatively

| | |
|--|--|
| Arm type | Experimental |
| Investigational medicinal product name | EXPAREL |
| Investigational medicinal product code | |
| Other name | bupivacaine liposome injectable suspension |
| Pharmaceutical forms | Suspension for injection |
| Routes of administration | Perineural use |

Dosage and administration details:

EXPAREL 133 mg

10 mL EXPAREL (bupivacaine liposome injectable suspension) expanded with 10 mL normal saline as single-injection brachial plexus block (interscalene or supraclavicular) ≥ 1 h preoperatively

| | |
|------------------|----------------|
| Arm title | EXPAREL 266 mg |
|------------------|----------------|

Arm description:

20 mL EXPAREL (bupivacaine liposome injectable suspension) as single-injection brachial plexus block (interscalene or supraclavicular) ≥ 1 h preoperatively

| | |
|--|--------------------------|
| Arm type | Experimental |
| Investigational medicinal product name | EXPAREL |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Suspension for injection |
| Routes of administration | Perineural use |

Dosage and administration details:

20 mL EXPAREL (bupivacaine liposome injectable suspension) as single-injection brachial plexus block (interscalene or supraclavicular) ≥ 1 h preoperatively

| | |
|------------------|---------|
| Arm title | Placebo |
|------------------|---------|

Arm description:

20 mL normal saline as single-injection brachial plexus block (interscalene or supraclavicular) ≥ 1 h preoperatively

| | |
|----------|---------|
| Arm type | Placebo |
|----------|---------|

| | |
|--|----------------|
| Investigational medicinal product name | Normal Saline |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Injection |
| Routes of administration | Perineural use |

Dosage and administration details:

20 mL normal saline as single-injection brachial plexus block (interscalene or supraclavicular) ≥1 h preoperatively

| Number of subjects in period 1 | EXPAREL 133 mg | EXPAREL 266 mg | Placebo |
|---------------------------------------|----------------|----------------|---------|
| Started | 69 | 15 | 71 |
| Completed | 68 | 15 | 71 |
| Not completed | 1 | 0 | 0 |
| Physician decision | 1 | - | - |

Baseline characteristics

Reporting groups

| | |
|--|----------------|
| Reporting group title | EXPAREL 133 mg |
| Reporting group description: 10 mL EXPAREL (bupivacaine liposome injectable suspension) expanded with 10 mL normal saline as single-injection brachial plexus block (interscalene or supraclavicular) ≥1 h preoperatively | |
| Reporting group title | EXPAREL 266 mg |
| Reporting group description: 20 mL EXPAREL (bupivacaine liposome injectable suspension) as single-injection brachial plexus block (interscalene or supraclavicular) ≥1 h preoperatively | |
| Reporting group title | Placebo |
| Reporting group description: 20 mL normal saline as single-injection brachial plexus block (interscalene or supraclavicular) ≥1 h preoperatively | |

| Reporting group values | EXPAREL 133 mg | EXPAREL 266 mg | Placebo |
|---|----------------|----------------|----------------|
| Number of subjects | 69 | 15 | 71 |
| Age categorical Units: Subjects | | | |
| In utero Preterm newborn infants (gestational age < 37 wks) Newborns (0-27 days) Infants and toddlers (28 days-23 months) Children (2-11 years) Adolescents (12-17 years) Adults (18-64 years) From 65-84 years 85 years and over | | | |
| Age continuous | | | |
| Safety population included all participants who received study drug, with analysis by actual treatment received. | | | |
| Units: years | | | |
| arithmetic mean standard deviation | 60.6 ± 9.94 | 61.4 ± 7.73 | 58.5 ± 9.48 |
| Gender categorical Units: Subjects | | | |
| Female Male | 25 44 | 7 8 | 23 48 |
| Ethnicity Units: Subjects | | | |
| Hispanic or Latino Not Hispanic or Latino Unknown or Not Reported | 3 64 2 | 0 15 0 | 5 65 1 |
| Dominant hand Units: Subjects | | | |
| Left hand Right hand | 10 59 | 1 14 | 10 61 |
| American Society of Anesthesiologists | | | |

| | | | |
|--|---------|---------|---------|
| classification | | | |
| Measure Description: American Society of Anesthesiologists (ASA) classification was determined by physicians using the ASA Physical Status Classification System which assesses the patient's pre-anesthesia medical co-morbidities. ASA 1 patients would be considered a normal, healthy patient. ASA 2 is a patient with mild systemic disease (eg, smoker, well controlled diabetes or high blood pressure (HBP)). ASA 3 is a patient with severe systemic disease (eg poorly controlled diabetes or HBP). ASA 4 is a patient with severe systemic disease that is a constant threat to life (eg, recent myocardial i | | | |
| Units: Subjects | | | |
| ASA 1 | 15 | 1 | 14 |
| ASA 2 | 36 | 9 | 37 |
| ASA 3 | 18 | 5 | 20 |
| ASA >= 4 | 0 | 0 | 0 |
| Nerve block type | | | |
| Units: Subjects | | | |
| Interscalene | 67 | 15 | 70 |
| Supraclavicular | 2 | 0 | 1 |
| Type of surgery | | | |
| Units: Subjects | | | |
| Rotator Cuff Surgery | 50 | 7 | 55 |
| Total Shoulder arthroplasty | 19 | 8 | 16 |
| Race | | | |
| Units: Subjects | | | |
| American Indian or Alaska Native | 0 | 0 | 0 |
| Asian | 1 | 0 | 0 |
| Native Hawaiian or Other Pacific Islander | 0 | 0 | 0 |
| Black or African American | 13 | 4 | 15 |
| White | 53 | 11 | 54 |
| More than one race | 0 | 0 | 0 |
| Unknown or not reported | 2 | 0 | 2 |
| Visual Analog Scale Pain Score | | | |
| Measure Description: Visual Analog Scale (VAS) is a pain scale. The VAS was presented as a straight 10 cm line, where 0 cm is no pain and 10 cm is the worst pain possible. Patients were asked, "How much pain are you experiencing right now? Please place a vertical mark on the line below to indicate the level of pain you are experiencing right now." | | | |
| Units: score on scale | | | |
| arithmetic mean | 2.43 | 2.51 | 2.94 |
| standard deviation | ± 2.621 | ± 2.641 | ± 2.514 |

| | | | |
|--|-------|--|--|
| Reporting group values | Total | | |
| Number of subjects | 155 | | |
| 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) | 0 | | |
| From 65-84 years | 0 | | |
| 85 years and over | 0 | | |

| | | | |
|--|-----|--|--|
| Age continuous | | | |
| Safety population included all participants who received study drug, with analysis by actual treatment received. | | | |
| Units: years arithmetic mean standard deviation | - | | |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 55 | | |
| Male | 100 | | |
| Ethnicity | | | |
| Units: Subjects | | | |
| Hispanic or Latino | 8 | | |
| Not Hispanic or Latino | 144 | | |
| Unknown or Not Reported | 3 | | |
| Dominant hand | | | |
| Units: Subjects | | | |
| Left hand | 21 | | |
| Right hand | 134 | | |
| American Society of Anesthesiologists classification | | | |
| Measure Description: American Society of Anesthesiologists (ASA) classification was determined by physicians using the ASA Physical Status Classification System which assesses the patient's pre-anesthesia medical co-morbidities. ASA 1 patients would be considered a normal, healthy patient. ASA 2 is a patient with mild systemic disease (eg, smoker, well controlled diabetes or high blood pressure (HBP)). ASA 3 is a patient with severe systemic disease (eg poorly controlled diabetes or HBP). ASA 4 is a patient with severe systemic disease that is a constant threat to life (eg, recent myocardial i | | | |
| Units: Subjects | | | |
| ASA 1 | 30 | | |
| ASA 2 | 82 | | |
| ASA 3 | 43 | | |
| ASA >/= 4 | 0 | | |
| Nerve block type | | | |
| Units: Subjects | | | |
| Interscalene | 152 | | |
| Supraclavicular | 3 | | |
| Type of surgery | | | |
| Units: Subjects | | | |
| Rotator Cuff Surgery | 112 | | |
| Total Shoulder arthroplasty | 43 | | |
| Race | | | |
| Units: Subjects | | | |
| American Indian or Alaska Native | 0 | | |
| Asian | 1 | | |
| Native Hawaiian or Other Pacific Islander | 0 | | |
| Black or African American | 32 | | |
| White | 118 | | |
| More than one race | 0 | | |
| Unknown or not reported | 4 | | |
| Visual Analog Scale Pain Score | | | |
| Measure Description: Visual Analog Scale (VAS) is a pain scale. The VAS was presented as a straight 10 cm line, where 0 cm is no pain and 10 cm is the worst pain possible. Patients were asked, "How much pain are you experiencing right now? Please place a vertical mark on the line below to indicate the level | | | |

| | | | |
|--|---|--|--|
| of pain you are experiencing right now." | | | |
| Units: score on scale | | | |
| arithmetic mean | | | |
| standard deviation | - | | |

End points

End points reporting groups

| | |
|--|----------------|
| Reporting group title | EXPAREL 133 mg |
| Reporting group description: 10 mL EXPAREL (bupivacaine liposome injectable suspension) expanded with 10 mL normal saline as single-injection brachial plexus block (interscalene or supraclavicular) ≥1 h preoperatively | |
| Reporting group title | EXPAREL 266 mg |
| Reporting group description: 20 mL EXPAREL (bupivacaine liposome injectable suspension) as single-injection brachial plexus block (interscalene or supraclavicular) ≥1 h preoperatively | |
| Reporting group title | Placebo |
| Reporting group description: 20 mL normal saline as single-injection brachial plexus block (interscalene or supraclavicular) ≥1 h preoperatively | |

Primary: Area Under the Curve (AUC) of Visual Analog Scale (VAS) Pain Intensity Scores

| | |
|---|--|
| End point title | Area Under the Curve (AUC) of Visual Analog Scale (VAS) Pain Intensity Scores ^[1] |
| End point description: AUC of VAS pain intensity scores through 48 hours, which represents total pain experienced through 48 hours. VAS is a pain scale. The VAS was presented as a straight 10 cm line, where 0 cm is no pain and 10 cm is the worst pain possible. Patients were asked, "How much pain are you experiencing right now? Please place a vertical mark on the line below to indicate the level of pain you are experiencing right now." | |
| End point type | Primary |
| End point timeframe: 0-48 hours | |

Notes:

[1] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period. Justification: Under protocol amendment 2, the study arm 266 mg dose of EXPAREL was removed from randomization scheme and efficacy endpoints.

| End point values | EXPAREL 133 mg | Placebo | | |
|-------------------------------------|--------------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 69 | 71 | | |
| Units: cm*hr | | | | |
| least squares mean (standard error) | 136.431 (± 12.090) | 254.119 (± 11.768) | | |

Statistical analyses

| | |
|----------------------------|--------------------------|
| Statistical analysis title | statistical analysis 1 |
| Comparison groups | EXPAREL 133 mg v Placebo |

| | |
|---|---------------|
| Number of subjects included in analysis | 140 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | ANOVA |
| Parameter estimate | LSMD |
| Point estimate | -117.688 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -150.896 |
| upper limit | -84.48 |

Secondary: Total Postsurgical Opioid Consumption Through 48 Hours

| | |
|------------------------|---|
| End point title | Total Postsurgical Opioid Consumption Through 48 Hours ^[2] |
| End point description: | Total postsurgical opioid consumption (converted to IV morphine equivalents) through 48 hours |
| End point type | Secondary |
| End point timeframe: | 0-48 hours |

Notes:

[2] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period. Justification: Under protocol amendment 2, the study arm 266 mg dose of EXPAREL was removed from randomization scheme and efficacy endpoints.

| End point values | EXPAREL 133 mg | Placebo | | |
|-------------------------------------|------------------|--------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 69 | 71 | | |
| Units: mg | | | | |
| least squares mean (standard error) | 25.007 (± 5.350) | 109.739 (± 22.972) | | |

Statistical analyses

| | |
|---|--------------------------|
| Statistical analysis title | Statistical Analysis 1 |
| Comparison groups | EXPAREL 133 mg v Placebo |
| Number of subjects included in analysis | 140 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | < 0.0001 |
| Method | ANOVA |
| Parameter estimate | LSM treatment ratio |
| Point estimate | 0.228 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.126 |
| upper limit | 0.411 |

Secondary: Percentage of Opioid-free Participants Through 48 Hours

| | |
|---|--|
| End point title | Percentage of Opioid-free Participants Through 48 Hours ^[3] |
| End point description: Percentage of participants who did not receive opioid medication through 48 hours | |
| End point type | Secondary |
| End point timeframe: 0-48 hours | |

Notes:

[3] - The end point is not reporting statistics for all the arms in the baseline period. It is expected all the baseline period arms will be reported on when providing values for an end point on the baseline period.

Justification: Under protocol amendment 2, the study arm 266 mg dose of EXPAREL was removed from randomization scheme and efficacy endpoints.

| End point values | EXPAREL 133 mg | Placebo | | |
|-----------------------------|-----------------|-----------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 69 | 71 | | |
| Units: participants | 9 | 1 | | |

Statistical analyses

| | |
|---|--------------------------|
| Statistical analysis title | Statistical Analysis 1 |
| Comparison groups | EXPAREL 133 mg v Placebo |
| Number of subjects included in analysis | 140 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.008 |
| Method | Cochran-Mantel-Haenszel |
| Parameter estimate | treatment difference |
| Point estimate | 0.116 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | 0.032 |
| upper limit | 0.2 |

Adverse events

Adverse events information

Timeframe for reporting adverse events:

From screening to postsurgical day 29

Adverse event reporting additional description:

An adverse event (AE) was defined as any untoward medical occurrence associated with the use of a drug in humans whether or not considered drug-related. An AE could therefore have been any unfavorable and unintended sign (eg, abnormal laboratory finding), symptom, or disease temporally associated with the use of a drug without any judgment about causality.

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 18.1 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|----------------|
| Reporting group title | EXPAREL 133 mg |
|-----------------------|----------------|

Reporting group description:

10 mL EXPAREL (bupivacaine liposome injectable suspension) expanded with 10 mL normal saline as single-injection brachial plexus block (interscalene or supraclavicular) ≥ 1 h preoperatively

| | |
|-----------------------|----------------|
| Reporting group title | EXPAREL 266 mg |
|-----------------------|----------------|

Reporting group description:

20 mL EXPAREL (bupivacaine liposome injectable suspension) as single-injection brachial plexus block (interscalene or supraclavicular) ≥ 1 h preoperatively

| | |
|-----------------------|---------|
| Reporting group title | Placebo |
|-----------------------|---------|

Reporting group description:

20 mL normal saline as single-injection brachial plexus block (interscalene or supraclavicular) ≥ 1 h preoperatively

| Serious adverse events | EXPAREL 133 mg | EXPAREL 266 mg | Placebo |
|---|----------------|----------------|----------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 2 / 69 (2.90%) | 1 / 15 (6.67%) | 1 / 71 (1.41%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Gastrointestinal disorders | | | |
| Pancreatitis | | | |
| subjects affected / exposed | 0 / 69 (0.00%) | 1 / 15 (6.67%) | 0 / 71 (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 |
| Infections and infestations | | | |
| Clostridium difficile colitis | | | |
| subjects affected / exposed | 0 / 69 (0.00%) | 0 / 15 (0.00%) | 1 / 71 (1.41%) |
| 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 / 69 (1.45%) | 0 / 15 (0.00%) | 0 / 71 (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 |
| Metabolism and nutrition disorders | | | |
| Gout | | | |
| subjects affected / exposed | 1 / 69 (1.45%) | 0 / 15 (0.00%) | 0 / 71 (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 |

Frequency threshold for reporting non-serious adverse events: 0.05 %

| Non-serious adverse events | EXPAREL 133 mg | EXPAREL 266 mg | Placebo |
|---|------------------|------------------|------------------|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 55 / 69 (79.71%) | 11 / 15 (73.33%) | 55 / 71 (77.46%) |
| Vascular disorders | | | |
| Hypertension | | | |
| subjects affected / exposed | 2 / 69 (2.90%) | 3 / 15 (20.00%) | 6 / 71 (8.45%) |
| occurrences (all) | 2 | 3 | 6 |
| Hypotension | | | |
| subjects affected / exposed | 1 / 69 (1.45%) | 1 / 15 (6.67%) | 2 / 71 (2.82%) |
| occurrences (all) | 1 | 1 | 2 |
| Cardiac disorders | | | |
| Tachycardia | | | |
| subjects affected / exposed | 1 / 69 (1.45%) | 1 / 15 (6.67%) | 0 / 71 (0.00%) |
| occurrences (all) | 1 | 1 | 0 |
| Nervous system disorders | | | |
| Dizziness | | | |
| subjects affected / exposed | 2 / 69 (2.90%) | 1 / 15 (6.67%) | 9 / 71 (12.68%) |
| occurrences (all) | 2 | 1 | 10 |
| Headache | | | |
| subjects affected / exposed | 7 / 69 (10.14%) | 1 / 15 (6.67%) | 3 / 71 (4.23%) |
| occurrences (all) | 7 | 1 | 3 |
| Dysgeusia | | | |
| subjects affected / exposed | 6 / 69 (8.70%) | 0 / 15 (0.00%) | 3 / 71 (4.23%) |
| occurrences (all) | 6 | 0 | 3 |
| Hypoaesthesia | | | |

| | | | |
|--|------------------------|----------------------|------------------------|
| subjects affected / exposed occurrences (all) | 6 / 69 (8.70%) 7 | 0 / 15 (0.00%) 0 | 1 / 71 (1.41%) 1 |
| Paraesthesia subjects affected / exposed occurrences (all) | 1 / 69 (1.45%) 1 | 1 / 15 (6.67%) 1 | 1 / 71 (1.41%) 1 |
| Sensory loss subjects affected / exposed occurrences (all) | 2 / 69 (2.90%) 2 | 1 / 15 (6.67%) 1 | 0 / 71 (0.00%) 0 |
| General disorders and administration site conditions Pyrexia subjects affected / exposed occurrences (all) | 6 / 69 (8.70%) 6 | 1 / 15 (6.67%) 1 | 3 / 71 (4.23%) 3 |
| Gastrointestinal disorders Nausea subjects affected / exposed occurrences (all) | 17 / 69 (24.64%) 19 | 3 / 15 (20.00%) 3 | 26 / 71 (36.62%) 27 |
| Constipation subjects affected / exposed occurrences (all) | 6 / 69 (8.70%) 6 | 2 / 15 (13.33%) 2 | 9 / 71 (12.68%) 9 |
| Vomiting subjects affected / exposed occurrences (all) | 4 / 69 (5.80%) 4 | 1 / 15 (6.67%) 1 | 7 / 71 (9.86%) 7 |
| Dyspepsia subjects affected / exposed occurrences (all) | 1 / 69 (1.45%) 1 | 0 / 15 (0.00%) 0 | 4 / 71 (5.63%) 4 |
| Abdominal pain subjects affected / exposed occurrences (all) | 0 / 69 (0.00%) 0 | 1 / 15 (6.67%) 1 | 0 / 71 (0.00%) 0 |
| Skin and subcutaneous tissue disorders Pruritus subjects affected / exposed occurrences (all) | 3 / 69 (4.35%) 3 | 1 / 15 (6.67%) 1 | 11 / 71 (15.49%) 11 |
| Rash subjects affected / exposed occurrences (all) | 0 / 69 (0.00%) 0 | 1 / 15 (6.67%) 1 | 1 / 71 (1.41%) 1 |
| Psychiatric disorders | | | |

| | | | |
|---|----------------|-----------------|-----------------|
| Insomnia | | | |
| subjects affected / exposed | 2 / 69 (2.90%) | 1 / 15 (6.67%) | 0 / 71 (0.00%) |
| occurrences (all) | 2 | 1 | 0 |
| Anxiety | | | |
| subjects affected / exposed | 1 / 69 (1.45%) | 1 / 15 (6.67%) | 0 / 71 (0.00%) |
| occurrences (all) | 1 | 1 | 0 |
| Musculoskeletal and connective tissue disorders | | | |
| Muscle twitching | | | |
| subjects affected / exposed | 5 / 69 (7.25%) | 2 / 15 (13.33%) | 8 / 71 (11.27%) |
| occurrences (all) | 6 | 2 | 8 |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|------------------|-------------|
| 15 February 2016 | Amendment 1 |
| 14 November 2016 | Amendment 2 |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported