



Clinical trial results:

A Phase II, Randomized, Placebo-Controlled, Double-Blind, Crossover, Study of the Pharmacodynamic Effects of CST-103 co-administered with CST-107 on the Central Nervous System in Subjects with Neurodegenerative Disorders

Summary

| | |
|--------------------------|----------------|
| EudraCT number | 2020-006067-28 |
| Trial protocol | BE |
| Global end of trial date | 31 August 2022 |

Results information

| | |
|--------------------------------|--------------|
| Result version number | v1 (current) |
| This version publication date | 29 July 2023 |
| First version publication date | 29 July 2023 |

Trial information

Trial identification

| | |
|-----------------------|------------------------|
| Sponsor protocol code | CST103/CST107-CLIN-011 |
|-----------------------|------------------------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT04739423 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|--|
| Sponsor organisation name | CuraSen Therapeutics, Inc. |
| Sponsor organisation address | 930 Brittan Avenue, San Carlos, United States, CA 94070 |
| Public contact | Clinical Trial Information Desk, CuraSen Therapeutics, Inc., +1 650 475 2842, clinicaltrials@curasen.com |
| Scientific contact | Clinical Trial Information Desk, CuraSen Therapeutics, Inc., +1 650 475 2842, clinicaltrials@curasen.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 April 2023 |
| Is this the analysis of the primary completion data? | Yes |
| Primary completion date | 31 August 2022 |
| Global end of trial reached? | Yes |
| Global end of trial date | 31 August 2022 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

The primary objective is to identify a CNS signal in one of the planned pharmacodynamic measures (emotional facial processing, cognitive fluctuations) after multiple doses of CST-103 co-administered with CST-107 in subjects with neurodegenerative diseases.

The objective is to identify an improvement in cognition, for example in learning, thinking and remembering, a CNS signal in one of the planned pharmacodynamic measurements after multiple oral doses of CST-103 in the presence of CST-107 in four populations of subjects with neurodegenerative disorders. This includes patients with Parkinson's Disease (PD) , Mild Cognitive Impairment (MCI), Parkinson's Disease Dementia (PDD) and Dementia with Lewy Bodies (DLB).

The primary objective for Cohort A population (PD or MCI) is a change in emotional facial recognition, a measure of mood. The primary objective for the Cohort B population (DLB or PDD) is to assess the change in cognitive fluctuations.

Protection of trial subjects:

Before each subject was screened, written informed consent was obtained from the subject. The consent forms were signed and dated and retained by the Investigator as part of the clinical trial records. The Investigator did not undertake any investigation specifically required for the clinical trial until valid consent had been obtained. The terms of the consent and when it was obtained were documented in the electronic case report form (eCRF). Each subject received a fully signed copy of each consent form that he/she signed for the clinical trial.

If the consent form was revised for a protocol amendment, it was reviewed and approved by the appropriate EC and signed by all subjects subsequently enrolled, as well as those currently enrolled in the trial.

Background therapy: -

Evidence for comparator: -

| | |
|---|---------------|
| Actual start date of recruitment | 21 April 2021 |
| Long term follow-up planned | No |
| Independent data monitoring committee (IDMC) involvement? | No |

Notes:

Population of trial subjects

Subjects enrolled per country

| | |
|--------------------------------------|--------------------|
| Country: Number of subjects enrolled | Australia: 5 |
| Country: Number of subjects enrolled | New Zealand: 15 |
| Country: Number of subjects enrolled | Belgium: 10 |
| Country: Number of subjects enrolled | United Kingdom: 11 |
| Worldwide total number of subjects | 41 |
| EEA total number of subjects | 10 |

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) | 19 |
| From 65 to 84 years | 22 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details:

After informed consent, all subjects completed screening procedures and tests to establish eligibility during the Screening Period, which were performed between Day -28 and Day -8. If a subject fell outside the Screening Period window, screening could be extended with prior approval by the CuraSen Medical Monitor.

Period 1

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

Arms

| | |
|------------------------------|--------------|
| Are arms mutually exclusive? | No |
| Arm title | PD - Placebo |

Arm description:

Subjects with Parkinson's Disease (PD) receiving placebo

| | |
|--|----------|
| Arm type | Placebo |
| Investigational medicinal product name | Placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

Taken daily in the morning after the first meal of the day during each Treatment Period (Day 1 - Day 14)

| | |
|------------------|-------------|
| Arm title | PD - Active |
|------------------|-------------|

Arm description:

Subjects with PD receiving active treatment.

| | |
|--|-----------------|
| Arm type | Experimental |
| Investigational medicinal product name | CST-103 |
| Investigational medicinal product code | |
| Other name | Clenbuterol HCl |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

Taken orally in the morning after the first meal of the day during each Treatment Period as 80 µg CST-103, administered as two 40 µg capsules once daily on Days 1 to 14

| | |
|--|----------|
| Investigational medicinal product name | CST-107 |
| Investigational medicinal product code | |
| Other name | Nadolol |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

Taken orally in the morning after the first meal of the day during each Treatment Period as 1 mg CST-107, administered as one 1 mg capsule once daily on Days 1 to 14.

| | |
|--|---------------|
| Arm title | MCI - Placebo |
| Arm description: Subjects with mild cognitive impairment (MCI) receiving placebo. | |
| Arm type | Placebo |
| Investigational medicinal product name | Placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |
| Dosage and administration details: Taken daily in the morning after the first meal of the day during each Treatment Period (Day 1 - Day 14) | |

| | |
|--|-----------------|
| Arm title | MCI - Active |
| Arm description: Subjects with MCI receiving active treatment. | |
| Arm type | Experimental |
| Investigational medicinal product name | CST-103 |
| Investigational medicinal product code | |
| Other name | Clenbuterol HCl |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |
| Dosage and administration details: Taken orally in the morning after the first meal of the day during each Treatment Period as 80 µg CST-103, administered as two 40 µg capsules once daily on Days 1 to 14 | |
| Investigational medicinal product name | CST-107 |
| Investigational medicinal product code | |
| Other name | Nadolol |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |
| Dosage and administration details: Taken orally in the morning after the first meal of the day during each Treatment Period as 1 mg CST-107, administered as one 1 mg capsule once daily on Days 1 to 14. | |

| | |
|--|----------------------|
| Arm title | PDD and DLB- Placebo |
| Arm description: Subjects with Parkinson's Disease Dementia (PDD) or Dementia with Lewy Bodies (DLB) receiving placebo. | |
| Arm type | Placebo |
| Investigational medicinal product name | Placebo |
| Investigational medicinal product code | |
| Other name | |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |
| Dosage and administration details: Taken daily in the morning after the first meal of the day during each Treatment Period (Day 1 - Day 14) | |

| | |
|--|----------------------|
| Arm title | PDD and DLB - Active |
| Arm description: Subjects with PDD or DLB receiving active treatment. | |
| Arm type | Experimental |

| | |
|--|-----------------|
| Investigational medicinal product name | CST-103 |
| Investigational medicinal product code | |
| Other name | Clenbuterol HCl |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

Taken orally in the morning after the first meal of the day during each Treatment Period as 80 µg CST-103, administered as two 40 µg capsules once daily on Days 1 to 14

| | |
|--|----------|
| Investigational medicinal product name | CST-107 |
| Investigational medicinal product code | |
| Other name | Nadolol |
| Pharmaceutical forms | Capsule |
| Routes of administration | Oral use |

Dosage and administration details:

Taken orally in the morning after the first meal of the day during each Treatment Period as 1 mg CST-107, administered as one 1 mg capsule once daily on Days 1 to 14.

| Number of subjects in period 1 | PD - Placebo | PD - Active | MCI - Placebo |
|---------------------------------------|--------------|-------------|---------------|
| Started | 25 | 24 | 12 |
| Completed | 24 | 24 | 12 |
| Not completed | 1 | 0 | 0 |
| Consent withdrawn by subject | - | - | - |
| Adverse event, non-fatal | - | - | - |
| Protocol deviation | 1 | - | - |

| Number of subjects in period 1 | MCI - Active | PDD and DLB- Placebo | PDD and DLB - Active |
|---------------------------------------|--------------|-------------------------|-------------------------|
| Started | 13 | 3 | 2 |
| Completed | 12 | 1 | 2 |
| Not completed | 1 | 2 | 0 |
| Consent withdrawn by subject | - | 1 | - |
| Adverse event, non-fatal | 1 | 1 | - |
| Protocol deviation | - | - | - |

Baseline characteristics

Reporting groups

| | |
|-----------------------|---------------|
| Reporting group title | Overall study |
|-----------------------|---------------|

Reporting group description: -

| Reporting group values | Overall study | Total | |
|---|----------------|-------|--|
| Number of subjects | 41 | 41 | |
| Age categorical Units: Subjects | | | |
| Age continuous Units: years arithmetic mean standard deviation | 63.7 ± 7.40 | - | |
| Gender categorical Units: Subjects | | | |
| Female | 13 | 13 | |
| Male | 28 | 28 | |

End points

End points reporting groups

| | |
|--|----------------------|
| Reporting group title | PD - Placebo |
| Reporting group description: Subjects with Parkinson's Disease (PD) receiving placebo | |
| Reporting group title | PD - Active |
| Reporting group description: Subjects with PD receiving active treatment. | |
| Reporting group title | MCI - Placebo |
| Reporting group description: Subjects with mild cognitive impairment (MCI) receiving placebo. | |
| Reporting group title | MCI - Active |
| Reporting group description: Subjects with MCI receiving active treatment. | |
| Reporting group title | PDD and DLB- Placebo |
| Reporting group description: Subjects with Parkinson's Disease Dementia (PDD) or Dementia with Lewy Bodies (DLB) receiving placebo. | |
| Reporting group title | PDD and DLB - Active |
| Reporting group description: Subjects with PDD or DLB receiving active treatment. | |

Primary: Facial Expression Recognition Task (FERT) - Accuracy for happiness

| | |
|---|---|
| End point title | Facial Expression Recognition Task (FERT) - Accuracy for happiness ^[1] |
| End point description: | |
| End point type | Primary |
| End point timeframe: Change from baseline to Day 14. | |

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: Analysis performed on data from PD subjects only. It is noted that the sample size for all groups other than PD were too small for meaningful analysis.

| End point values | PD - Placebo | PD - Active | | |
|-------------------------------------|------------------------|-------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 23 | 24 | | |
| Units: Percentage | | | | |
| least squares mean (standard error) | 8.1316 (\pm 2.5783) | 13.6138 (\pm 2.5462) | | |

Statistical analyses

| | |
|---|----------------------------|
| Statistical analysis title | Between treatment analysis |
| Comparison groups | PD - Placebo v PD - Active |
| Number of subjects included in analysis | 47 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[2] |
| P-value | = 0.0479 |
| Method | Mixed models analysis |

Notes:

[2] - It is noted that the number of subjects in this analysis was 23 and not 47 as automatically imputed by EudraCT.

Primary: Facial Expression Recognition Task (FERT) - Accuracy for sadness

| | |
|-----------------|---|
| End point title | Facial Expression Recognition Task (FERT) - Accuracy for sadness ^[3] |
|-----------------|---|

End point description:

| | |
|----------------|---------|
| End point type | Primary |
|----------------|---------|

End point timeframe:

Change in baseline to Day 14.

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: Analysis performed on data from PD subjects only. It is noted that the sample size for all groups other than PD were too small for meaningful analysis.

| End point values | PD - Placebo | PD - Active | | |
|-------------------------------------|-------------------------|-------------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 23 | 24 | | |
| Units: Percentage protective dose | | | | |
| least squares mean (standard error) | -6.9002 (\pm 1.7950) | -2.1048 (\pm 1.7749) | | |

Statistical analyses

| | |
|---|----------------------------|
| Statistical analysis title | Between treatment analysis |
| Comparison groups | PD - Active v PD - Placebo |
| Number of subjects included in analysis | 47 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[4] |
| P-value | = 0.0161 |
| Method | Mixed models analysis |

Notes:

[4] - It is noted that the number of subjects in this analysis was 23 and not 47 as automatically imputed by EudraCT.

Primary: Facial Expression Recognition Task (FERT) - Reaction time for anger

| | |
|-----------------|--|
| End point title | Facial Expression Recognition Task (FERT) - Reaction time for anger ^[5] |
|-----------------|--|

End point description:

| | |
|----------------|---------|
| End point type | Primary |
|----------------|---------|

End point timeframe:

Change from baseline to Day 7.

Notes:

[5] - 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: Analysis performed on data from PD subjects only. It is noted that the sample size for all groups other than PD were too small for meaningful analysis.

| End point values | PD - Placebo | PD - Active | | |
|-------------------------------------|------------------------|----------------------|--|--|
| Subject group type | Reporting group | Reporting group | | |
| Number of subjects analysed | 21 | 23 | | |
| Units: ms | | | | |
| least squares mean (standard error) | -150.77 (\pm 78.70) | 16.52 (\pm 75.97) | | |

Statistical analyses

| Statistical analysis title | Between treatment analysis |
|---|----------------------------|
| Comparison groups | PD - Placebo v PD - Active |
| Number of subjects included in analysis | 44 |
| Analysis specification | Pre-specified |
| Analysis type | other ^[6] |
| P-value | = 0.0237 |
| Method | Mixed models analysis |

Notes:

[6] - It is noted that the number of subjects in this analysis was 21 and not 44 as automatically imputed by EudraCT.

Adverse events

Adverse events information

Timeframe for reporting adverse events:

From first dose to end of study visit.

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 24.0 |
|--------------------|------|

Reporting groups

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

Reporting group description:

Subjects with Parkinson's Disease (PD) receiving placebo

| | |
|-----------------------|-------------|
| Reporting group title | PD - Active |
|-----------------------|-------------|

Reporting group description:

Subjects with PD receiving active treatment.

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

Reporting group description:

Subjects with mild cognitive impairment (MCI) receiving placebo.

| | |
|-----------------------|--------------|
| Reporting group title | MCI - Active |
|-----------------------|--------------|

Reporting group description:

Subjects with MCI receiving active treatment.

| | |
|-----------------------|----------------------|
| Reporting group title | PDD and DLB- Placebo |
|-----------------------|----------------------|

Reporting group description:

Subjects with Parkinson's Disease Dementia (PDD) or Dementia with Lewy Bodies (DLB) receiving placebo.

| | |
|-----------------------|----------------------|
| Reporting group title | PDD and DLB - Active |
|-----------------------|----------------------|

Reporting group description:

Subjects with PDD or DLB receiving active treatment.

| Serious adverse events | PD - Placebo | PD - Active | MCI - Placebo |
|---|----------------|----------------|----------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Nervous system disorders | | | |
| Hypoglycaemic seizure | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 1 / 24 (4.17%) | 0 / 12 (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 |
| Blood and lymphatic system disorders | | | |
| Anaemia | | | |

| | | | |
|---|----------------|----------------|----------------|
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 0 / 12 (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 | MCI - Active | PDD and DLB- Placebo | PDD and DLB - Active |
|---|----------------|-------------------------|-------------------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 1 / 3 (33.33%) | 0 / 2 (0.00%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | 0 | 0 | 0 |
| Nervous system disorders | | | |
| Hypoglycaemic seizure | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (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 | | | |
| Anaemia | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 1 / 3 (33.33%) | 0 / 2 (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 |

Frequency threshold for reporting non-serious adverse events: 0 %

| Non-serious adverse events | PD - Placebo | PD - Active | MCI - Placebo |
|---|------------------|------------------|-----------------|
| Total subjects affected by non-serious adverse events | | | |
| subjects affected / exposed | 17 / 25 (68.00%) | 21 / 24 (87.50%) | 4 / 12 (33.33%) |
| Vascular disorders | | | |
| Hypertension | | | |
| subjects affected / exposed | 1 / 25 (4.00%) | 0 / 24 (0.00%) | 1 / 12 (8.33%) |
| occurrences (all) | 1 | 0 | 1 |
| Hot flush | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 1 / 12 (8.33%) |
| occurrences (all) | 0 | 0 | 1 |
| Orthostatic hypotension | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Supine hypertension | | | |

| | | | |
|---|---------------------|---------------------|---------------------|
| subjects affected / exposed occurrences (all) | 1 / 25 (4.00%) 1 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| General disorders and administration site conditions | | | |
| Asthenia | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Malaise | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Oedema | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Respiratory, thoracic and mediastinal disorders | | | |
| Cough | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Oropharyngeal pain | | | |
| subjects affected / exposed | 1 / 25 (4.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 1 | 1 | 0 |
| Psychiatric disorders | | | |
| Nervousness | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Anxiety | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Rapid eye movement sleep behaviour disorder | | | |
| subjects affected / exposed | 2 / 25 (8.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 2 | 0 | 0 |
| Agitation | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 1 / 12 (8.33%) |
| occurrences (all) | 0 | 0 | 1 |
| Confusional state | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |

| | | | |
|---|---------------------|---------------------|---------------------|
| Depressed mood subjects affected / exposed occurrences (all) | 0 / 25 (0.00%) 0 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| Hallucination, olfactory subjects affected / exposed occurrences (all) | 1 / 25 (4.00%) 1 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| Initial insomnia subjects affected / exposed occurrences (all) | 1 / 25 (4.00%) 1 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| Insomnia subjects affected / exposed occurrences (all) | 0 / 25 (0.00%) 0 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| Irritability subjects affected / exposed occurrences (all) | 0 / 25 (0.00%) 0 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| Mood altered subjects affected / exposed occurrences (all) | 0 / 25 (0.00%) 0 | 1 / 24 (4.17%) 1 | 0 / 12 (0.00%) 0 |
| Nightmare subjects affected / exposed occurrences (all) | 0 / 25 (0.00%) 0 | 1 / 24 (4.17%) 1 | 0 / 12 (0.00%) 0 |
| Restlessness subjects affected / exposed occurrences (all) | 0 / 25 (0.00%) 0 | 1 / 24 (4.17%) 1 | 0 / 12 (0.00%) 0 |
| Sleep disorder subjects affected / exposed occurrences (all) | 1 / 25 (4.00%) 1 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| Investigations | | | |
| Blood creatine phosphokinase increased subjects affected / exposed occurrences (all) | 0 / 25 (0.00%) 0 | 1 / 24 (4.17%) 1 | 0 / 12 (0.00%) 0 |
| Lipase increased subjects affected / exposed occurrences (all) | 1 / 25 (4.00%) 1 | 1 / 24 (4.17%) 1 | 0 / 12 (0.00%) 0 |
| Aspartate aminotransferase increased | | | |

| | | | |
|--|----------------------|----------------------|---------------------|
| subjects affected / exposed occurrences (all) | 0 / 25 (0.00%) 0 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| Hepatic enzyme increased subjects affected / exposed occurrences (all) | 1 / 25 (4.00%) 1 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| Injury, poisoning and procedural complications | | | |
| Fall | | | |
| subjects affected / exposed occurrences (all) | 2 / 25 (8.00%) 2 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| Contusion | | | |
| subjects affected / exposed occurrences (all) | 0 / 25 (0.00%) 0 | 1 / 24 (4.17%) 1 | 0 / 12 (0.00%) 0 |
| Head injury | | | |
| subjects affected / exposed occurrences (all) | 1 / 25 (4.00%) 1 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| Skin laceration | | | |
| subjects affected / exposed occurrences (all) | 1 / 25 (4.00%) 1 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| Cardiac disorders | | | |
| Tachycardia | | | |
| subjects affected / exposed occurrences (all) | 0 / 25 (0.00%) 0 | 1 / 24 (4.17%) 1 | 0 / 12 (0.00%) 0 |
| Nervous system disorders | | | |
| Headache | | | |
| subjects affected / exposed occurrences (all) | 3 / 25 (12.00%) 3 | 5 / 24 (20.83%) 5 | 0 / 12 (0.00%) 0 |
| Tremor | | | |
| subjects affected / exposed occurrences (all) | 0 / 25 (0.00%) 0 | 6 / 24 (25.00%) 6 | 0 / 12 (0.00%) 0 |
| Parkinson's disease | | | |
| subjects affected / exposed occurrences (all) | 0 / 25 (0.00%) 0 | 1 / 24 (4.17%) 1 | 0 / 12 (0.00%) 0 |
| Restless legs syndrome | | | |
| subjects affected / exposed occurrences (all) | 1 / 25 (4.00%) 1 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| Somnolence | | | |

| | | | |
|-----------------------------|----------------|----------------|----------------|
| subjects affected / exposed | 1 / 25 (4.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Cognitive disorder | | | |
| subjects affected / exposed | 1 / 25 (4.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Dizziness | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Essential tremor | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Hypotonia | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Lethargy | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Migraine | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Parkinsonian rest tremor | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Vertebral artery aneurysm | | | |
| subjects affected / exposed | 1 / 25 (4.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Memory impairment | | | |
| subjects affected / exposed | 1 / 25 (4.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 1 | 1 | 0 |
| Ear and labyrinth disorders | | | |
| Deafness | | | |
| subjects affected / exposed | 1 / 25 (4.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Eye disorders | | | |
| Eye oedema | | | |

| | | | |
|--|----------------|-----------------|----------------|
| subjects affected / exposed | 0 / 25 (0.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Vision blurred | | | |
| subjects affected / exposed | 1 / 25 (4.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Gastrointestinal disorders | | | |
| Diarrhoea | | | |
| subjects affected / exposed | 1 / 25 (4.00%) | 1 / 24 (4.17%) | 1 / 12 (8.33%) |
| occurrences (all) | 1 | 1 | 1 |
| Nausea | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 2 / 24 (8.33%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 2 | 0 |
| Abdominal pain | | | |
| subjects affected / exposed | 1 / 25 (4.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Flatulence | | | |
| subjects affected / exposed | 1 / 25 (4.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Gastritis | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Stomatitis | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Vomiting | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Skin and subcutaneous tissue disorders | | | |
| Erythema | | | |
| subjects affected / exposed | 2 / 25 (8.00%) | 4 / 24 (16.67%) | 0 / 12 (0.00%) |
| occurrences (all) | 2 | 4 | 0 |
| Skin irritation | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 3 / 24 (12.50%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 3 | 0 |
| Dermatitis contact | | | |

| | | | |
|---|----------------|----------------|----------------|
| subjects affected / exposed | 1 / 25 (4.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 1 | 1 | 0 |
| Ecchymosis | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 1 / 12 (8.33%) |
| occurrences (all) | 0 | 0 | 1 |
| Rash | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Musculoskeletal and connective tissue disorders | | | |
| Groin pain | | | |
| subjects affected / exposed | 1 / 25 (4.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Joint swelling | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Musculoskeletal discomfort | | | |
| subjects affected / exposed | 1 / 25 (4.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Myalgia | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Periarthritis | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 0 / 24 (0.00%) | 1 / 12 (8.33%) |
| occurrences (all) | 0 | 0 | 1 |
| Infections and infestations | | | |
| Gastroenteritis viral | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Herpes zoster | | | |
| subjects affected / exposed | 1 / 25 (4.00%) | 0 / 24 (0.00%) | 0 / 12 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Respiratory tract infection | | | |
| subjects affected / exposed | 0 / 25 (0.00%) | 1 / 24 (4.17%) | 0 / 12 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Tooth infection | | | |

| | | | |
|---|---------------------|---------------------|---------------------|
| subjects affected / exposed occurrences (all) | 1 / 25 (4.00%) 1 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| Upper respiratory tract infection subjects affected / exposed occurrences (all) | 0 / 25 (0.00%) 0 | 0 / 24 (0.00%) 0 | 1 / 12 (8.33%) 1 |
| Viral infection subjects affected / exposed occurrences (all) | 1 / 25 (4.00%) 1 | 0 / 24 (0.00%) 0 | 0 / 12 (0.00%) 0 |
| Metabolism and nutrition disorders Hypoglycaemia subjects affected / exposed occurrences (all) | 0 / 25 (0.00%) 0 | 1 / 24 (4.17%) 1 | 0 / 12 (0.00%) 0 |

| Non-serious adverse events | MCI - Active | PDD and DLB- Placebo | PDD and DLB - Active |
|---|---------------------|-------------------------|-------------------------|
| Total subjects affected by non-serious adverse events subjects affected / exposed | 7 / 13 (53.85%) | 3 / 3 (100.00%) | 2 / 2 (100.00%) |
| Vascular disorders Hypertension subjects affected / exposed occurrences (all) | 1 / 13 (7.69%) 1 | 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 |
| Hot flush subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 | 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 |
| Orthostatic hypotension subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 | 1 / 3 (33.33%) 1 | 0 / 2 (0.00%) 0 |
| Supine hypertension subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 | 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 |
| General disorders and administration site conditions Asthenia subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 | 0 / 3 (0.00%) 0 | 1 / 2 (50.00%) 1 |
| Malaise subjects affected / exposed occurrences (all) | 1 / 13 (7.69%) 1 | 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 |

| | | | |
|---|--|---|---|
| Oedema subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 | 1 / 3 (33.33%) 1 | 0 / 2 (0.00%) 0 |
| Respiratory, thoracic and mediastinal disorders Cough subjects affected / exposed occurrences (all) Oropharyngeal pain subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 0 / 13 (0.00%) 0 | 1 / 3 (33.33%) 1 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 0 / 2 (0.00%) 0 |
| Psychiatric disorders Nervousness subjects affected / exposed occurrences (all) Anxiety subjects affected / exposed occurrences (all) Rapid eye movement sleep behaviour disorder subjects affected / exposed occurrences (all) Agitation subjects affected / exposed occurrences (all) Confusional state subjects affected / exposed occurrences (all) Depressed mood subjects affected / exposed occurrences (all) Hallucination, olfactory subjects affected / exposed occurrences (all) Initial insomnia subjects affected / exposed occurrences (all) Insomnia | 2 / 13 (15.38%) 2 2 / 13 (15.38%) 2 0 / 13 (0.00%) 0 0 / 13 (0.00%) 0 0 / 13 (0.00%) 0 0 / 13 (0.00%) 0 0 / 13 (0.00%) 0 0 / 13 (0.00%) 0 0 / 13 (0.00%) 0 0 / 13 (0.00%) 0 | 0 / 3 (0.00%) 0 0 / 3 (0.00%) 0 0 / 3 (0.00%) 0 0 / 3 (0.00%) 0 1 / 3 (33.33%) 1 0 / 3 (0.00%) 0 0 / 3 (0.00%) 0 0 / 3 (0.00%) 0 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 0 / 2 (0.00%) 0 0 / 2 (0.00%) 0 0 / 2 (0.00%) 0 0 / 2 (0.00%) 0 1 / 2 (50.00%) 1 0 / 2 (0.00%) 0 0 / 2 (0.00%) 0 0 / 2 (0.00%) 0 |

| | | | |
|--|----------------|----------------|----------------|
| subjects affected / exposed | 1 / 13 (7.69%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Irritability | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 1 / 3 (33.33%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 1 | 0 |
| Mood altered | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Nightmare | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Restlessness | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Sleep disorder | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Investigations | | | |
| Blood creatine phosphokinase increased | | | |
| subjects affected / exposed | 1 / 13 (7.69%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Lipase increased | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Aspartate aminotransferase increased | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 1 / 2 (50.00%) |
| occurrences (all) | 0 | 0 | 1 |
| Hepatic enzyme increased | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Injury, poisoning and procedural complications | | | |
| Fall | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Contusion | | | |

| | | | |
|--|----------------------|--------------------|---------------------|
| subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 | 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 |
| Head injury subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 | 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 |
| Skin laceration subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 | 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 |
| Cardiac disorders Tachycardia subjects affected / exposed occurrences (all) | 1 / 13 (7.69%) 1 | 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 |
| Nervous system disorders Headache subjects affected / exposed occurrences (all) | 2 / 13 (15.38%) 2 | 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 |
| Tremor subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 | 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 |
| Parkinson's disease subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 | 0 / 3 (0.00%) 0 | 1 / 2 (50.00%) 1 |
| Restless legs syndrome subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 | 0 / 3 (0.00%) 0 | 1 / 2 (50.00%) 1 |
| Somnolence subjects affected / exposed occurrences (all) | 1 / 13 (7.69%) 1 | 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 |
| Cognitive disorder subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 | 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 |
| Dizziness subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 | 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 |
| Essential tremor | | | |

| | | | |
|-----------------------------|----------------|---------------|---------------|
| subjects affected / exposed | 1 / 13 (7.69%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Hypotonia | | | |
| subjects affected / exposed | 1 / 13 (7.69%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Lethargy | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Migraine | | | |
| subjects affected / exposed | 1 / 13 (7.69%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Parkinsonian rest tremor | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Vertebral artery aneurysm | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Memory impairment | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Ear and labyrinth disorders | | | |
| Deafness | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Eye disorders | | | |
| Eye oedema | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Vision blurred | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Gastrointestinal disorders | | | |
| Diarrhoea | | | |
| subjects affected / exposed | 1 / 13 (7.69%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Nausea | | | |

| | | | |
|---|----------------|---------------|----------------|
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Abdominal pain | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Flatulence | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Gastritis | | | |
| subjects affected / exposed | 1 / 13 (7.69%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Stomatitis | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Vomiting | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Skin and subcutaneous tissue disorders | | | |
| Erythema | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 1 / 2 (50.00%) |
| occurrences (all) | 0 | 0 | 1 |
| Skin irritation | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Dermatitis contact | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Ecchymosis | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Rash | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Musculoskeletal and connective tissue disorders | | | |

| | | | |
|------------------------------------|----------------|---------------|---------------|
| Groin pain | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Joint swelling | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Musculoskeletal discomfort | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Myalgia | | | |
| subjects affected / exposed | 1 / 13 (7.69%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 1 | 0 | 0 |
| Periarthritis | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Infections and infestations | | | |
| Gastroenteritis viral | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Herpes zoster | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Respiratory tract infection | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Tooth infection | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Viral infection | | | |
| subjects affected / exposed | 0 / 13 (0.00%) | 0 / 3 (0.00%) | 0 / 2 (0.00%) |
| occurrences (all) | 0 | 0 | 0 |
| Metabolism and nutrition disorders | | | |

| | | | |
|---|---------------------|--------------------|--------------------|
| Hypoglycaemia subjects affected / exposed occurrences (all) | 0 / 13 (0.00%) 0 | 0 / 3 (0.00%) 0 | 0 / 2 (0.00%) 0 |
|---|---------------------|--------------------|--------------------|

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|-----------------|---|
| 27 January 2021 | Version 1.1 added assessment of Freezing of Gait (FOG) using the FOG-Q for subjects with PD, PDD, and DLB. |
| 18 March 2021 | UK Version 2.0 added exclusion criterion #11 for known hypersensitivity to Spiropent (clenbuterol), Corgard (nadolol) or intolerance to lactose, and added the exclusion criterion for females who were breastfeeding. This amendment added the Columbia Suicide Severity Rating Scale (C-SSRS), including revising exclusion criterion #15 to specify suicidal ideation with actual intent or plan ("Yes" answer on the C-SSRS ideation items 4 or 5). |
| 23 April 2021 | UK Version 3.0 deleted use of the BioStamp digital device for activity tracking. A separate AUS/NZ version of the protocol was generated when Australian and New Zealand sites were initiated. The major difference was that AUS/NZ versions included the Sustained Attention Response Task (SART) and the BioStamp activity assessment whereas the UK/EU versions did not. |
| 18 July 2021 | UK Version 4.0 (Amendment 4) and AUS/NZ Version 3.0 (Amendment 3) added neuromelanin-sensitive MRI as an optional procedure based on imaging capabilities) for an added exploratory objective to characterize locus coeruleus volume and contrast ratio. |
| 23 August 2021 | UK Version 5.0 (Amendment 5) and AUS/NZ Version 4.0 (Amendment 4) added the verbal fluency test (alphabet and category) and added the Stop Signal Task to the CANTAB assessments. The UK version, but not the AUS/NZ version, deleted the SART. |
| 19 October 2021 | UK/EU Version 6.0 (Amendment 6) and AUS/NZ Version 5.0 (Amendment 5) included 3 main changes to the protocol. <ul style="list-style-type: none">• HADS was deleted as an inclusion criterion but kept as an outcome measure. HADS led to a high screen failure rate. The criterion was intended to select subjects with a score cutoff of very mild depression but it was found that the FERT was sensitive even in subjects who did not have depressed mood so the criterion was not necessary.• APOE4 genotyping was added as an exploratory endpoint. The epsilon4 allele of the apolipoprotein E gene (APOE4) has been consistently associated with cognitive function in Alzheimer's disease and recently has also been found to be an important predictor of cognitive function in Parkinson's disease across multiple domains. Therefore, it would be important to ascertain whether the subjects in the study carry this allele as it is an important covariate to consider in the cognition data analysis.• The amendment allowed for the washout period between Treatment Periods 1 and 2 to be extended with Medical Monitor approval to accommodate holiday closure schedules at the clinical study centers as well as to accommodate subject availability. |

| | |
|------------------|--|
| 18 February 2022 | <p>UK/EU Version 7.0 (Amendment 7) and AUS/NZ Version 6.0 (Amendment 6) were the final protocol versions and included 2 main changes:</p> <ul style="list-style-type: none"> • Exclusion criterion #9 for subjects with a calculated creatinine clearance of ≤ 70 mL/min according to the Cockcroft-Gault equation was updated to ≤ 60 mL/min. A substantial number of potential patients in the study were older than 60 years of age and therefore were expected to have a GFR in the range of 60 to 70 mL/min so the criterion was modified to take that into account. This exclusion criterion was intended to ensure that patients who were medically ill with poor renal function were excluded from the trial. Subjects who were deemed to have normal to mildly impaired renal function based on either physical examination and/or laboratory values were eligible if their eGFR values were age-appropriate and not below 60 mL/min. • Wording was revised to clarify that the inclusion/exclusion criteria were to be evaluated only at Screening, Lead-In, and pre-dose on Day 1 of Treatment Period 1 (and not re-evaluated pre-dose on Day 1 of Treatment Period 2). |
|------------------|--|

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

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

Only the primary endpoint data with statistically significant treatment differences have been presented here. (PD only due to small sample size).
The number of AE events has been assumed to equal the number of subjects experiencing the event term

Notes: