



Clinical trial results:

Prospective, multicenter, randomized, double-blind, parallel-group, dose-response study of three doses Xeomin® (incobotulinumtoxinA, NT 201) for the treatment of upper limb spasticity alone or combined upper and lower limb spasticity in children and adolescents (age 2 - 17 years) with cerebral palsy.

Summary

| | |
|--------------------------|-------------------|
| EudraCT number | 2012-005496-14 |
| Trial protocol | PL Outside EU/EEA |
| Global end of trial date | 28 August 2018 |

Results information

| | |
|--------------------------------|--|
| Result version number | v2 (current) |
| This version publication date | 18 August 2019 |
| First version publication date | 10 March 2019 |
| Version creation reason | <ul style="list-style-type: none">• Correction of full data set Zero AEs observed replaced with zero participants analyzed for various data points in several AE-related endpoints |

Trial information

Trial identification

| | |
|-----------------------|-----------------|
| Sponsor protocol code | MRZ60201_3072_1 |
|-----------------------|-----------------|

Additional study identifiers

| | |
|------------------------------------|-------------|
| ISRCTN number | - |
| ClinicalTrials.gov id (NCT number) | NCT02002884 |
| WHO universal trial number (UTN) | - |

Notes:

Sponsors

| | |
|------------------------------|---|
| Sponsor organisation name | Merz Pharmaceuticals GmbH |
| Sponsor organisation address | Eckenheimer Landstrasse 100, Frankfurt/M, Germany, 60318 |
| Public contact | Public Disclosure Manager, Merz Pharmaceuticals GmbH, +49 6915031, clinicaltrials@merz.de |
| Scientific contact | Public Disclosure Manager, Merz Pharmaceuticals GmbH, +49 6915031, clinicaltrials@merz.de |

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? | Yes |

Notes:

Results analysis stage

| | |
|--|------------------|
| Analysis stage | Final |
| Date of interim/final analysis | 12 December 2018 |
| Is this the analysis of the primary completion data? | No |
| Global end of trial reached? | Yes |
| Global end of trial date | 28 August 2018 |
| Was the trial ended prematurely? | No |

Notes:

General information about the trial

Main objective of the trial:

The purpose of this study is to determine whether injections of Botulinum toxin type A into muscles of one or both upper limbs (UL) alone or in combination with injections into one or both lower limbs (LL) are effective and safe in treating children/adolescents (age 2-17 years) with spasticity due to cerebral palsy.

Protection of trial subjects:

High medical and ethical standards were followed in accordance with Good Clinical Practice and other applicable regulations. In addition, an independent data monitoring committee was in charge of monitoring patient safety while the study was ongoing.

Background therapy: -

Evidence for comparator: -

| | |
|---|---------------|
| Actual start date of recruitment | 28 March 2014 |
| 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 | Mexico: 62 |
| Country: Number of subjects enrolled | Argentina: 21 |
| Country: Number of subjects enrolled | Russian Federation: 36 |
| Country: Number of subjects enrolled | Ukraine: 122 |
| Country: Number of subjects enrolled | United States: 27 |
| Country: Number of subjects enrolled | Poland: 83 |
| Worldwide total number of subjects | 351 |
| EEA total number of subjects | 83 |

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) | 271 |
| Adolescents (12-17 years) | 80 |
| Adults (18-64 years) | 0 |
| From 65 to 84 years | 0 |
| 85 years and over | 0 |

Subject disposition

Recruitment

Recruitment details:

The study was conducted at 28 investigative sites in Mexico, Argentina, Russian federation, Ukraine, United States and Poland.

Pre-assignment

Screening details:

A total of 372 subjects were screened, 351 subjects were randomized and 350 subjects were randomized and treated in the study. 331 subjects completed the main period (MP) and moved to the open-label-extension period (OLEX) out of which 281 subjects completed the OLEX period.

Period 1

| | |
|------------------------------|------------------------------|
| Period 1 title | Main Period (MP) |
| Is this the baseline period? | Yes |
| Allocation method | Randomised - controlled |
| Blinding used | Double blind |
| Roles blinded | Investigator, Carer, Subject |

Arms

| | |
|------------------------------|-------------------|
| Are arms mutually exclusive? | Yes |
| Arm title | MP Low Dose Group |

Arm description:

In MP, subjects randomized to low dose group were injected with doses of NT 201 ranging from 2 to 5 Units per kilogram (U/kg) body weight (BW) up to a total body dose of 125 Units (U).

| | |
|--|--|
| Arm type | Experimental |
| Investigational medicinal product name | IncobotulinumtoxinA |
| Investigational medicinal product code | NT 201 |
| Other name | Xeomin; Botulinum toxin type A (150 kiloDalton), free from complexing proteins |
| Pharmaceutical forms | Powder for solution for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

On Day 1 of MP, subjects randomized to low dose group received intramuscular injections of 2 U/kg NT 201 (maximum of 50 U in subjects with more than [$>$] 25 kilogram [kg] BW) into spastic muscles of one of the UL. Treatment with fixed doses of either flexed elbow or flexed wrist or both was mandatory. If the contralateral UL or one or both LL were also treated, subjects received additional doses of NT 201. The total body dose ranged from 2 U/kg (50 U for subjects with >25 kg BW) to 5 U/kg (125 U for subjects with >25 kg BW) depending on the combination of treated limbs and the subject's Gross Motor Function Classification System (GMFCS) level.

| | |
|------------------|-------------------|
| Arm title | MP Mid Dose Group |
|------------------|-------------------|

Arm description:

In MP, subjects randomized to mid dose group were injected with doses of NT 201 ranging from 6 to 15 U/kg BW up to a total body dose of 375 U.

| | |
|--|--|
| Arm type | Experimental |
| Investigational medicinal product name | IncobotulinumtoxinA |
| Investigational medicinal product code | NT 201 |
| Other name | Xeomin; Botulinum toxin type A (150 kiloDalton), free from complexing proteins |
| Pharmaceutical forms | Powder for solution for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

On Day 1 of MP, subjects randomized to mid dose group received intramuscular injections of 6 U/kg NT 201 (maximum of 150 U in subjects with >25 kg BW) into spastic muscles of one of the UL. Treatment with fixed doses of either flexed elbow or flexed wrist or both was mandatory. If the contralateral UL or

one or both LL were also treated, subjects received additional doses of NT 201. The total body dose ranged from 6 U/kg (150 U for subjects with >25kg BW) to 15 U/kg (375 U for subjects with >25kg BW) depending on the combination of treated limbs and the subject's GMFCS level.

| | |
|---|--|
| Arm title | MP High Dose Group |
| Arm description: | |
| In MP, subjects randomized to high dose group were injected with doses of NT 201 ranging from 8 to 20 U/kg BW up to a total body dose of 500 U. | |
| Arm type | Experimental |
| Investigational medicinal product name | IncobotulinumtoxinA |
| Investigational medicinal product code | NT 201 |
| Other name | Xeomin; Botulinum toxin type A (150 kiloDalton), free from complexing proteins |
| Pharmaceutical forms | Powder for solution for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

On Day 1 of MP, subjects randomized to high dose group received intramuscular injections of 8 U/kg NT 201 (maximum of 200 U in subjects with >25kg BW) into spastic muscles of one of the UL. Treatment with fixed doses of either flexed elbow or flexed wrist or both was mandatory. If the contralateral UL or one or both LL were also treated, subjects received additional doses of NT 201. The total body dose ranged from 8 U/kg (200 U for subjects with >25kg BW) to 20 U/kg (500 U for subjects with >25kg BW) depending on the combination of treated limbs and the subject's GMFCS level.

| Number of subjects in period 1 | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group |
|---------------------------------------|-------------------|-------------------|--------------------|
| Started | 87 | 88 | 176 |
| Treated | 87 | 87 | 176 |
| Completed | 81 | 82 | 168 |
| Not completed | 6 | 6 | 8 |
| Consent withdrawn by subject | 6 | 2 | 2 |
| Adverse event, non-fatal | - | 1 | 1 |
| Other | - | 3 | 3 |
| Lost to follow-up | - | - | 2 |

Period 2

| | |
|------------------------------|------------------------------------|
| Period 2 title | Open-Label Extension Period (OLEX) |
| Is this the baseline period? | No |
| Allocation method | Not applicable |
| Blinding used | Not blinded |

Arms

| | |
|--|--|
| Arm title | OLEX (3 Injections) |
| Arm description: | |
| Subjects who completed MP and qualified for further participation in the study were treated with doses of NT 201 between 8 and 20 U/kg (maximum body dose of 500 U in subjects with >25kg BW) in each of the three injection cycles in OLEX. | |
| Arm type | Experimental |
| Investigational medicinal product name | IncobotulinumtoxinA |
| Investigational medicinal product code | NT 201 |
| Other name | Xeomin; Botulinum toxin type A (150 kiloDalton), free from complexing proteins |
| Pharmaceutical forms | Powder for solution for injection |
| Routes of administration | Intramuscular use |

Dosage and administration details:

On Day 1 of each of the three injection cycles of OLEX, subjects who qualified for further participation in the study received intramuscular injections of 8 U/kg NT 201 (maximum of 200 U in subjects with >25kg BW) into spastic muscles of the UL selected for treatment in MP. Treatment with fixed doses of either flexed elbow or flexed wrist or both was mandatory. If the contralateral UL or one or both LL were also treated, subjects received additional doses of NT 201. The total body dose ranged from 8 U/kg (200 U for subjects with >25kg BW) to 20 U/kg (500 U for subjects with >25kg BW) depending on the combination of treated limbs and the subject's GMFCS level.

| Number of subjects in period 2 | OLEX (3 Injections) |
|---------------------------------------|---------------------|
| Started | 331 |
| Completed | 281 |
| Not completed | 50 |
| Consent withdrawn by subject | 10 |
| Physician decision | 1 |
| Adverse event, non-fatal | 5 |
| Other | 24 |
| Lost to follow-up | 10 |

Baseline characteristics

Reporting groups

| | |
|--|--------------------|
| Reporting group title | MP Low Dose Group |
| Reporting group description: | |
| In MP, subjects randomized to low dose group were injected with doses of NT 201 ranging from 2 to 5 Units per kilogram (U/kg) body weight (BW) up to a total body dose of 125 Units (U). | |
| Reporting group title | MP Mid Dose Group |
| Reporting group description: | |
| In MP, subjects randomized to mid dose group were injected with doses of NT 201 ranging from 6 to 15 U/kg BW up to a total body dose of 375 U. | |
| Reporting group title | MP High Dose Group |
| Reporting group description: | |
| In MP, subjects randomized to high dose group were injected with doses of NT 201 ranging from 8 to 20 U/kg BW up to a total body dose of 500 U. | |

| Reporting group values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group |
|--|-------------------|-------------------|--------------------|
| Number of subjects | 87 | 88 | 176 |
| 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) | 64 | 71 | 136 |
| Adolescents (12-17 years) | 23 | 17 | 40 |
| Adults (18-64 years) | 0 | 0 | 0 |
| From 65-84 years | 0 | 0 | 0 |
| 85 years and over | 0 | 0 | 0 |
| Age continuous | | | |
| Units: years | | | |
| arithmetic mean | 7.2 | 7.4 | 7.3 |
| standard deviation | ± 4.70 | ± 4.13 | ± 4.40 |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 38 | 31 | 62 |
| Male | 49 | 57 | 114 |
| Ethnicity characteristic | | | |
| Units: Subjects | | | |
| Hispanic or Latino | 16 | 26 | 45 |
| Not Hispanic or Latino | 71 | 62 | 131 |
| Race characteristic | | | |
| Units: Subjects | | | |
| White | 81 | 75 | 160 |
| Black or African American | 3 | 2 | 2 |
| Other | 3 | 11 | 14 |

| | | | |
|------------------------|-------|--|--|
| Reporting group values | Total | | |
|------------------------|-------|--|--|

| | | | |
|---|-----|--|--|
| Number of subjects | 351 | | |
| 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) | 271 | | |
| Adolescents (12-17 years) | 80 | | |
| Adults (18-64 years) | 0 | | |
| From 65-84 years | 0 | | |
| 85 years and over | 0 | | |
| Age continuous | | | |
| Units: years | | | |
| arithmetic mean | | | |
| standard deviation | - | | |
| Gender categorical | | | |
| Units: Subjects | | | |
| Female | 131 | | |
| Male | 220 | | |
| Ethnicity characteristic | | | |
| Units: Subjects | | | |
| Hispanic or Latino | 87 | | |
| Not Hispanic or Latino | 264 | | |
| Race characteristic | | | |
| Units: Subjects | | | |
| White | 316 | | |
| Black or African American | 7 | | |
| Other | 28 | | |

End points

End points reporting groups

| | |
|--|-----------------------------|
| Reporting group title | MP Low Dose Group |
| Reporting group description: In MP, subjects randomized to low dose group were injected with doses of NT 201 ranging from 2 to 5 Units per kilogram (U/kg) body weight (BW) up to a total body dose of 125 Units (U). | |
| Reporting group title | MP Mid Dose Group |
| Reporting group description: In MP, subjects randomized to mid dose group were injected with doses of NT 201 ranging from 6 to 15 U/kg BW up to a total body dose of 375 U. | |
| Reporting group title | MP High Dose Group |
| Reporting group description: In MP, subjects randomized to high dose group were injected with doses of NT 201 ranging from 8 to 20 U/kg BW up to a total body dose of 500 U. | |
| Reporting group title | OLEX (3 Injections) |
| Reporting group description: Subjects who completed MP and qualified for further participation in the study were treated with doses of NT 201 between 8 and 20 U/kg (maximum body dose of 500 U in subjects with >25kg BW) in each of the three injection cycles in OLEX. | |
| Subject analysis set title | MP: Full Analysis Set (FAS) |
| Subject analysis set type | Full analysis |
| Subject analysis set description: The FAS was the subset in the safety analysis set (SES) of the MP for whom the primary efficacy variable or co-primary efficacy variable were available (that is, all subjects who had at least an AS score in the clinical pattern flexed elbow or flexed wrist at baseline [Day 1] or the Investigator's global impression of change scales [GICS] at Day 29 [Week 4]). | |
| Subject analysis set title | Safety Evaluation Set (SES) |
| Subject analysis set type | Safety analysis |
| Subject analysis set description: The SES was the subset of all subjects treated in the MP and OLEX with study medication at least once. | |
| Subject analysis set title | MP Low Dose Group |
| Subject analysis set type | Safety analysis |
| Subject analysis set description: In MP, subjects randomized to low dose group were injected with doses of NT 201 ranging from 2 to 5 U/kg BW up to a total body dose of 125 U. | |
| Subject analysis set title | MP Mid Dose Group |
| Subject analysis set type | Safety analysis |
| Subject analysis set description: In MP, subjects randomized to mid dose group were injected with doses of NT 201 ranging from 6 to 15 U/kg BW up to a total body dose of 375 U. | |
| Subject analysis set title | MP High Dose Group |
| Subject analysis set type | Safety analysis |
| Subject analysis set description: In MP, subjects randomized to high dose group were injected with doses of NT 201 ranging from 8 to 20 U/kg BW up to a total body dose of 500 U. | |
| Subject analysis set title | OLEX (3 Injections) |
| Subject analysis set type | Safety analysis |
| Subject analysis set description: Subjects who completed MP and qualified for further participation in the study were treated with doses of NT 201 between 8 and 20 U/kg (maximum body dose of 500 U in subjects with >25kg BW) in each of the three injection cycles in OLEX. | |

Primary: MP: Change From Baseline in Ashworth Scale (AS) in UL Primary Clinical Target Pattern at Week 4

| | |
|-----------------|---|
| End point title | MP: Change From Baseline in Ashworth Scale (AS) in UL Primary Clinical Target Pattern at Week 4 |
|-----------------|---|

End point description:

The AS categorizes severity of spasticity by judging resistance to passive movement. Spasticity was assessed by using the 5-point AS with: 0 (no increase in tone); 1 (slight increase in tone giving a "catch" when the limb was moved in flexion or extension); 2 (more marked increase in tone, but limb easily flexed); 3 (considerable increase in tone - passive movements difficult); 4 (limb rigid in flexion or extension). Values represent least square (LS) mean differences between baseline and Week 4 resulting from Mixed Model Repeated Measurement (MMRM) models comparing high versus low and in a second step mid versus low dose groups, respectively. Values for the low group may differ slightly depending on the comparison and are therefore provided separately for each comparison. Here "n" was the number of subjects who were evaluable for this measure at a given time period and were included in the assessment. The value 999 indicates that no data is available from the respective specific model.

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

End point timeframe:

Baseline and Week 4

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | |
|-------------------------------------|-------------------|-------------------|--------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 87 ^[1] | 87 ^[2] | 176 ^[3] | |
| Units: unit on a scale | | | | |
| least squares mean (standard error) | | | | |
| High (n=172) versus Low (n=85) | -0.93 (± 0.078) | 999 (± 999) | -1.15 (± 0.056) | |
| Mid (n=86) versus Low (n=85) | -0.96 (± 0.082) | -1.02 (± 0.082) | 999 (± 999) | |

Notes:

[1] - MP-FAS

[2] - MP-FAS

[3] - MP-FAS

Statistical analyses

| | |
|----------------------------|------------------------|
| Statistical analysis title | Statistical Analysis 1 |
|----------------------------|------------------------|

Statistical analysis description:

LS-Means are from mixed model with treatment group, pooled site and pre-treatment status included as fixed factors and AS at baseline, Gross Motor Function Classification System-Extended and Revised (GMFCS-E&R) level at screening included as covariates. For MMRM visit*treatment is interaction term repeated factor.

| | |
|---|--|
| Comparison groups | MP Low Dose Group v MP High Dose Group |
| Number of subjects included in analysis | 263 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.017 |
| Method | MMRM |
| Parameter estimate | LS Mean difference |
| Point estimate | -0.22 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.4 |
| upper limit | -0.04 |

| | |
|-----------------------------------|------------------------|
| Statistical analysis title | Statistical Analysis 2 |
|-----------------------------------|------------------------|

Statistical analysis description:

LS-Means are from mixed model with treatment group, pooled site and pre-treatment status included as fixed factors and AS at baseline, GMFCS-E&R level at screening included as covariates. For MMRM visit*treatment is interaction term repeated factor.

| | |
|---|---------------------------------------|
| Comparison groups | MP Low Dose Group v MP Mid Dose Group |
| Number of subjects included in analysis | 174 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.546 |
| Method | MMRM |
| Parameter estimate | LS-Mean difference |
| Point estimate | -0.07 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.29 |
| upper limit | 0.15 |

Primary: Co-primary Variable MP: Investigator's Global Impression of Change Scale (GICS) at Week 4

| | |
|-----------------|---|
| End point title | Co-primary Variable MP: Investigator's Global Impression of Change Scale (GICS) at Week 4 |
|-----------------|---|

End point description:

The GICS was used to measure independently the investigator's impression of change due to treatment. The response option was a common 7-point Likert scale, that ranges from +3 (very much improved); +2 (much improved); +1 (minimally improved); 0 (no change); -1 (minimally worse); -2 (much worse); -3 (very much worse). Values represent LS mean differences between baseline and Week 4 resulting from ANCOVA models comparing high versus low and in a second step mid versus low dose groups, respectively. Values for the low group may differ slightly depending on the comparison and are therefore provided separately for each comparison. Here "n" was the number of subjects who were evaluable for this measure at given time period and were included in the assessment. The value 999 indicates that no data is available from the respective specific model.

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

End point timeframe:

Week 4

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | |
|-------------------------------------|-------------------|-------------------|--------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 87 ^[4] | 87 ^[5] | 176 ^[6] | |
| Units: unit on a scale | | | | |
| least squares mean (standard error) | | | | |
| High (n=176) versus Low (n=87) | 1.55 (± 0.083) | 999 (± 999) | 1.64 (± 0.062) | |
| Mid (n=87) versus Low (n=87) | 1.57 (± 0.089) | 1.44 (± 0.092) | 999 (± 999) | |

Notes:

[4] - MP-FAS

[5] - MP-FAS

[6] - MP-FAS

Statistical analyses

| Statistical analysis title | Statistical Analysis 1 |
|----------------------------|------------------------|
|----------------------------|------------------------|

Statistical analysis description:

LS-Means are from analysis of covariance (ANCOVA) with treatment group, pooled site and pretreatment status included as fixed factors and maximum AS score of the two possible primary target patterns flexed elbow or flexed wrist baseline, GMFCS-E&R level at screening included as covariates.

| | |
|---|--|
| Comparison groups | MP Low Dose Group v MP High Dose Group |
| Number of subjects included in analysis | 263 |
| Analysis specification | Post-hoc |
| Analysis type | superiority |
| P-value | = 0.34 |
| Method | ANCOVA |
| Parameter estimate | LS-Mean difference |
| Point estimate | 0.09 |
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.1 |
| upper limit | 0.28 |

| Statistical analysis title | Statistical Analysis 2 |
|----------------------------|------------------------|
|----------------------------|------------------------|

Statistical analysis description:

LS-Means are from ANCOVA with treatment group, pooled site and pre-treatment status included as fixed factors and maximum AS score of the two possible primary target patterns flexed elbow or flexed wrist baseline, GMFCS-E&R level at screening included as covariates.

| | |
|---|---------------------------------------|
| Comparison groups | MP Low Dose Group v MP Mid Dose Group |
| Number of subjects included in analysis | 174 |
| Analysis specification | Pre-specified |
| Analysis type | superiority |
| P-value | = 0.297 |
| Method | ANCOVA |
| Parameter estimate | LS-Mean difference |
| Point estimate | -0.12 |

| | |
|---------------------|---------|
| Confidence interval | |
| level | 95 % |
| sides | 2-sided |
| lower limit | -0.36 |
| upper limit | 0.11 |

Secondary: MP: Change From Baseline in AS score of the Other Treated UL Main Clinical Target Pattern at Week 4

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|-----------------|---|
| End point title | MP: Change From Baseline in AS score of the Other Treated UL Main Clinical Target Pattern at Week 4 |
|-----------------|---|

End point description:

The AS categorizes the severity of spasticity by judging resistance to passive movement. Spasticity was assessed by 5-point scale at visits, where: 0 (no increase in tone); 1(slight increase in tone giving a "catch" when the limb was moved in flexion or extension); 2(more marked increase in tone, but limb easily flexed); 3(considerable increase in tone - passive movements difficult); 4(limb rigid in flexion or extension). Values represent LS mean differences between baseline and Week 4 resulting from MMRM models comparing high versus low and in a second step mid versus low dose groups, respectively. Values for the low group may differ slightly depending on the comparison and are therefore provided separately for each comparison. Here "n" was the number of subjects who were evaluable for this measure at given time period and were included in the assessment. The value 999 indicates that no data is available from the respective specific model.

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

End point timeframe:

Baseline and Week 4

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | |
|-------------------------------------|-------------------|-------------------|--------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 87 ^[7] | 88 ^[8] | 176 ^[9] | |
| Units: unit on a scale | | | | |
| least squares mean (standard error) | | | | |
| High (n=143) versus Low (n=67) | -1.03 (± 0.083) | 999 (± 999) | -1.13 (± 0.061) | |
| Mid (n=69) versus Low (n=67) | -1.08 (± 0.087) | -1.22 (± 0.090) | 999 (± 999) | |

Notes:

[7] - MP-FAS

[8] - MP-FAS

[9] - MP-FAS

Statistical analyses

No statistical analyses for this end point

Secondary: MP: Change From Baseline in AS score in UL Treated Clenched Fist With Flexed Wrist at Week 4

| | |
|-----------------|--|
| End point title | MP: Change From Baseline in AS score in UL Treated Clenched Fist With Flexed Wrist at Week 4 |
|-----------------|--|

End point description:

The AS categorizes the severity of spasticity by judging resistance to passive movement. Spasticity was assessed by 5-point scale at visits, where: 0 (no increase in tone); 1(slight increase in tone giving a

"catch" when the limb was moved in flexion or extension); 2(more marked increase in tone, but limb easily flexed); 3(considerable increase in tone - passive movements difficult); 4(limb rigid in flexion or extension). Values represent LS mean differences between baseline and Week 4 resulting from MMRM models comparing high versus low and in a second step mid versus low dose groups, respectively. Values for the low group may differ slightly depending on the comparison and are therefore provided separately for each comparison. Here "n" was the number of subjects who were evaluable for this measure at given time period and were included in the assessment. The value 999 indicates that no data is available from the respective specific model.

| | |
|----------------------|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Baseline and Week 4 | |

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | |
|-------------------------------------|--------------------|--------------------|---------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 87 ^[10] | 88 ^[11] | 176 ^[12] | |
| Units: unit on a scale | | | | |
| least squares mean (standard error) | | | | |
| High (n=45) versus Low (n=18) | -0.53 (± 0.212) | 999 (± 999) | -1.00 (± 0.133) | |
| Mid (n=20) versus Low (n=18) | -0.070 (± 0.202) | -1.04 (± 0.176) | 999 (± 999) | |

Notes:

[10] - MP-FAS

[11] - MP-FAS

[12] - MP-FAS

Statistical analyses

No statistical analyses for this end point

Secondary: MP: Change From Baseline in AS score for Each Treated Clinical Pattern of the UL at Week 4

| | |
|-----------------|--|
| End point title | MP: Change From Baseline in AS score for Each Treated Clinical Pattern of the UL at Week 4 |
|-----------------|--|

End point description:

The AS categorizes the severity of spasticity by judging resistance to passive movement. Spasticity was assessed by 5-point scale at visits, where: 0 (no increase in tone); 1(slight increase in tone giving a "catch" when the limb was moved in flexion or extension); 2(more marked increase in tone, but limb easily flexed); 3(considerable increase in tone - passive movements difficult); 4(limb rigid in flexion or extension). Values represent LS mean differences between baseline and Week 4 resulting from MMRM models comparing high versus low and in a second step mid versus low dose groups, respectively. Values for the low group may differ slightly depending on the comparison and are therefore provided separately for each comparison. Here "n" was the number of subjects who were evaluable for this measure at given time period and were included in the assessment. The value 999 indicates that no data is available from the respective specific model.

| | |
|----------------------|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Baseline and Week 4 | |

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | |
|--|--------------------|--------------------|---------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 87 ^[13] | 88 ^[14] | 176 ^[15] | |
| Units: unit on a scale | | | | |
| least squares mean (standard error) | | | | |
| Flexed elbow: High (n=166) versus Low (n=83) | -0.99 (± 0.076) | 999 (± 999) | -1.18 (± 0.056) | |
| Flexed elbow: Mid (n=82) versus Low (n=83) | -1.01 (± 0.081) | -1.17 (± 0.082) | 999 (± 999) | |
| Flexed wrist: High (n=149) versus Low (n=69) | -0.96 (± 0.085) | 999 (± 999) | -1.08 (± 0.061) | |
| Flexed wrist: Mid (n=73) versus Low (n=69) | -1.01 (± 0.087) | -1.05 (± 0.087) | 999 (± 999) | |
| Clenched fist: High (n=64) versus Low (n=34) | -0.64 (± 0.136) | 999 (± 999) | -1.09 (± 0.096) | |
| Clenched fist: Mid (n=30) versus Low (n=34) | -0.58 (± 0.145) | -0.87 (± 0.141) | 999 (± 999) | |
| Thumb in palm: High (n=98) versus Low (n=49) | -0.88 (± 0.116) | 999 (± 999) | -1.11 (± 0.083) | |
| Thumb in palm: Mid (n=44) versus Low (n=49) | -0.93 (± 0.131) | -1.14 (± 0.123) | 999 (± 999) | |
| Pronated forearm: High (n=150) versus Low (n=72) | -0.88 (± 0.080) | 999 (± 999) | -1.02 (± 0.058) | |
| Pronated forearm: Mid (n=73) versus Low (n=72) | -0.87 (± 0.086) | -0.94 (± 0.088) | 999 (± 999) | |

Notes:

[13] - MP-FAS

[14] - MP-FAS

[15] - MP-FAS

Statistical analyses

No statistical analyses for this end point

Secondary: MP: Change From Baseline in Scores of Pain Intensity (From Subjects) and Pain Frequency (From Parent/Caregiver) Assessed With 'Questionnaire on Pain caused by Spasticity (QPS)'

| | |
|-----------------|--|
| End point title | MP: Change From Baseline in Scores of Pain Intensity (From Subjects) and Pain Frequency (From Parent/Caregiver) Assessed With 'Questionnaire on Pain caused by Spasticity (QPS)' |
|-----------------|--|

End point description:

Pain intensity (from subjects) and pain frequency (from parent/caregiver) to be assessed with QPS. The QPS Total Score for pain intensity ranges from 0 ('No Hurt') to 10 ('Hurt Worst'). The QPS Total Score for the observed pain frequency ranges from 0 (Never) to 4 (Always). Values represent LS mean differences between baseline and Week 4 resulting from MMRM models comparing high versus low and in a second step mid versus low dose groups, respectively. Values for the low group may differ slightly depending on the comparison and are therefore provided separately for each comparison. Here "n" was the number of subjects who were evaluable for this measure at given time period and were included in the assessment. The value 999 indicates that no data is available from the respective specific model. P/C = Parent/Caregiver.

| | |
|------------------------------|-----------|
| End point type | Secondary |
| End point timeframe: | |
| Baseline, Weeks 4, 8, and 14 | |

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | |
|--|--------------------|--------------------|---------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 87 ^[16] | 88 ^[17] | 176 ^[18] | |
| Units: unit on a scale | | | | |
| least squares mean (standard error) | | | | |
| UL, Subject, Week 4 High (n=52) versus low (n=30) | -0.42 (± 0.217) | 999 (± 999) | -0.75 (± 0.199) | |
| UL, Subject, Week 4 Mid (n=34) versus low (n=30) | -0.39 (± 0.256) | -0.67 (± 0.289) | 999 (± 999) | |
| UL, Subject, Week 8 High (n=52) versus low (n=29) | -0.52 (± 0.206) | 999 (± 999) | -0.64 (± 0.188) | |
| UL, Subject, Week 8 Mid (n=34) versus low (n=29) | -0.63 (± 0.259) | -0.55 (± 0.290) | 999 (± 999) | |
| UL, Subject, Week 14 High (n=52) versus low (n=27) | -0.56 (± 0.217) | 999 (± 999) | -0.59 (± 0.202) | |
| UL, Subject, Week 14 Mid (n=32) versus low (n=27) | -0.66 (± 0.327) | -0.59 (± 0.361) | 999 (± 999) | |
| UL, P/C, Week 4 High (n=133) versus low (n=64) | -0.46 (± 0.102) | 999 (± 999) | -0.44 (± 0.076) | |
| UL, P/C, Week 4 Mid (n=65) versus low (n=64) | -0.43 (± 0.106) | -0.28 (± 0.115) | 999 (± 999) | |
| UL, P/C, Week 8 High (n=138) versus low (n=67) | -0.40 (± 0.095) | 999 (± 999) | -0.44 (± 0.070) | |
| UL, P/C, Week 8 Mid (n=66) versus low (n=67) | -0.43 (± 0.100) | -0.34 (± 0.109) | 999 (± 999) | |
| UL, P/C, Week 14 High (n=137) versus low (n=58) | -0.23 (± 0.105) | 999 (± 999) | -0.24 (± 0.071) | |
| UL, P/C, Week 14 Mid (n=61) versus low (n=58) | -0.31 (± 0.100) | -0.25 (± 0.107) | 999 (± 999) | |
| LL, Subject, Week 4 High (n=43) versus low (n=24) | -0.74 (± 0.282) | 999 (± 999) | -0.62 (± 0.250) | |
| LL, Subject, Week 4 Mid (n=29) versus low (n=24) | -0.46 (± 0.305) | -0.55 (± 0.321) | 999 (± 999) | |
| LL, Subject, Week 8 High (n=44) versus low (n=25) | -1.04 (± 0.241) | 999 (± 999) | -0.69 (± 0.218) | |
| LL, Subject, Week 8 Mid (n=28) versus low (n=25) | -0.90 (± 0.261) | -0.81 (± 0.284) | 999 (± 999) | |
| LL, Subject, Week 14 High (n=43) versus low (n=23) | -0.71 (± 0.275) | 999 (± 999) | -0.57 (± 0.245) | |
| LL, Subject, Week 14 Mid (n=28) versus low (n=23) | -0.67 (± 0.315) | -0.63 (± 0.335) | 999 (± 999) | |
| LL, P/C, Week 4 High (n=110) versus low (n=56) | -0.50 (± 0.105) | 999 (± 999) | -0.52 (± 0.077) | |
| LL, P/C, Week 4 Mid (n=54) versus low (n=56) | -0.46 (± 0.103) | -0.42 (± 0.111) | 999 (± 999) | |
| LL, P/C, Week 8 High (n=113) versus low (n=59) | -0.56 (± 0.098) | 999 (± 999) | -0.51 (± 0.074) | |
| LL, P/C, Week 8 Mid (n=54) versus low (n=59) | -0.52 (± 0.102) | -0.36 (± 0.111) | 999 (± 999) | |
| LL, P/C, Week 14 High (n=110) versus low (n=53) | -0.33 (± 0.108) | 999 (± 999) | -0.32 (± 0.078) | |
| LL, P/C, Week 14 Mid (n=53) versus low (n=53) | -0.37 (± 0.086) | -0.31 (± 0.090) | 999 (± 999) | |

Notes:

[16] - MP-FAS

[17] - MP-FAS

[18] - MP-FAS

Statistical analyses

No statistical analyses for this end point

Secondary: MP: Child's/Adolescent's, and Parent's/Caregiver's GICS in UL at Week 4

| | |
|-----------------|---|
| End point title | MP: Child's/Adolescent's, and Parent's/Caregiver's GICS in UL at Week 4 |
|-----------------|---|

End point description:

The GICS was used to measure independently the child's/adolescent's, and parent's or caregiver's impression of change due to treatment. The response option was a common 7-point Likert scale, that ranges from: +3(very much improved); +2(much improved); +1(minimally improved); 0(no change); -1(minimally worse); -2(much worse); -3(very much worse). Values represent LS mean differences between baseline and Week 4 resulting from ANCOVA models comparing high versus low and in a second step mid versus low dose groups, respectively. Values for the low group may differ slightly depending on the comparison and are therefore provided separately for each comparison. Here "n" was the number of subjects who were evaluable for this measure at a given time period and were included in the assessment. The value 999 indicates that no data is available from the respective specific model.

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

End point timeframe:

Week 4

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | |
|--|--------------------|--------------------|---------------------|--|
| Subject group type | Reporting group | Reporting group | Reporting group | |
| Number of subjects analysed | 87 ^[19] | 88 ^[20] | 176 ^[21] | |
| Units: unit on a scale | | | | |
| least squares mean (standard error) | | | | |
| Subject: High (n=55) versus Low (n=31) | 1.51 (± 0.153) | 999 (± 999) | 1.63 (± 0.139) | |
| Subject: Mid (n=38) versus Low (n=31) | 1.53 (± 0.180) | 1.48 (± 0.190) | 999 (± 999) | |
| Parent/Caregiver: High (n=176) versus Low (n=87) | 1.41 (± 0.087) | 999 (± 999) | 1.60 (± 0.065) | |
| Parent/Caregiver: Mid (n=87) versus Low (n=87) | 1.36 (± 0.094) | 1.29 (± 0.097) | 999 (± 999) | |

Notes:

[19] - MP-FAS

[20] - MP-FAS

[21] - MP-FAS

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Subjects With Occurrence of Treatment Emergent Adverse Events (TEAEs) Overall and per Treatment Cycle

| | |
|-----------------|---|
| End point title | Number of Subjects With Occurrence of Treatment Emergent Adverse Events (TEAEs) Overall and per Treatment Cycle |
|-----------------|---|

End point description:

The SES was the subset of all subjects treated in the MP and OLEX with study medication at least once. Number of subjects who were evaluable for this measure at a given time period and were included in the assessment.

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

End point timeframe:

Baseline up to Week 66

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | OLEX (3 Injections) |
|--|----------------------|----------------------|----------------------|----------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 87 ^[22] | 87 ^[23] | 176 ^[24] | 331 ^[25] |
| Units: Subjects | | | | |
| Overall | 21 | 13 | 42 | 114 |
| First injection cycle (MP) (n=87,87,176,0) | 21 | 13 | 42 | 0 |
| Second injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 64 |
| Third injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 43 |
| Fourth injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 48 |

Notes:

[22] - SES

[23] - SES

[24] - SES

[25] - SES

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Subjects With Occurrence of TEAEs of Special Interest (TEAESIs) Overall and per Treatment Cycle

| | |
|-----------------|---|
| End point title | Number of Subjects With Occurrence of TEAEs of Special Interest (TEAESIs) Overall and per Treatment Cycle |
|-----------------|---|

End point description:

The SES was the subset of all subjects treated in the MP and OLEX with study medication at least once. Number of subjects who were evaluable for this measure at a given time period and were included in the assessment.

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

End point timeframe:

Baseline up to Week 66

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | OLEX (3 Injections) |
|--|----------------------|----------------------|----------------------|----------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 87 ^[26] | 87 ^[27] | 176 ^[28] | 331 ^[29] |
| Units: subjects | | | | |
| Overall | 1 | 1 | 1 | 5 |
| First injection cycle (MP) (n=87,87,176,0) | 1 | 1 | 1 | 0 |
| Second injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 2 |
| Third injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 3 |
| Fourth injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 1 |

Notes:

[26] - SES

[27] - SES

[28] - SES

[29] - SES

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Subjects With Occurrence of Serious TEAEs (TESAEs) Overall and per Treatment Cycle

| | |
|-----------------|--|
| End point title | Number of Subjects With Occurrence of Serious TEAEs (TESAEs) Overall and per Treatment Cycle |
|-----------------|--|

End point description:

The SES was the subset of all subjects treated in the MP and OLEX with study medication at least once. Number of subjects who were evaluable for this measure at a given time period and were included in the assessment.

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

End point timeframe:

Baseline up to Week 66

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | OLEX (3 Injections) |
|--|----------------------|----------------------|----------------------|----------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 87 ^[30] | 87 ^[31] | 176 ^[32] | 331 ^[33] |
| Units: subjects | | | | |
| Overall | 2 | 1 | 2 | 16 |
| First injection cycle (MP) (n=87,87,176,0) | 2 | 1 | 2 | 0 |
| Second injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 7 |
| Third injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 9 |
| Fourth injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 3 |

Notes:

[30] - SES

[31] - SES

[32] - SES

[33] - SES

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Subjects With Occurrence of TEAEs Related to Treatment Overall and per Treatment Cycle

| | |
|---|--|
| End point title | Number of Subjects With Occurrence of TEAEs Related to Treatment Overall and per Treatment Cycle |
| End point description: The SES was the subset of all subjects treated in MP and OLEX with study medication at least once. Number of subjects who were evaluable for this measure at a given time period and were included in the assessment. | |
| End point type | Secondary |
| End point timeframe: Baseline up to Week 66 | |

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | OLEX (3 Injections) |
|--|----------------------|----------------------|----------------------|----------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 87 ^[34] | 87 ^[35] | 176 ^[36] | 331 ^[37] |
| Units: subjects | | | | |
| Overall | 0 | 0 | 3 | 5 |
| First injection cycle (MP) (n=87,87,176,0) | 0 | 0 | 3 | 0 |
| Second injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 2 |
| Third injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 2 |
| Fourth injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 1 |

Notes:

[34] - SES

[35] - SES

[36] - SES

[37] - SES

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Subjects With Occurrence of TEAEs by Worst Intensity Overall and per Treatment Cycle

| | |
|--|--|
| End point title | Number of Subjects With Occurrence of TEAEs by Worst Intensity Overall and per Treatment Cycle |
| End point description: The SES was the subset of all subjects treated in the MP and OLEX with study medication at least once. | |

Number of subjects who were evaluable for this measure at a given time period and were included in the assessment.

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

End point timeframe:

Baseline up to Week 66

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | OLEX (3 Injections) |
|---|----------------------|----------------------|----------------------|----------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 87 ^[38] | 87 ^[39] | 176 ^[40] | 331 ^[41] |
| Units: subjects | | | | |
| Overall: Mild | 15 | 10 | 33 | 62 |
| Overall: Moderate | 6 | 2 | 7 | 44 |
| Overall: Severe | 0 | 1 | 2 | 8 |
| First injection cycle (MP): Mild (n=87,87,176,0) | 15 | 10 | 33 | 0 |
| First injection cycle (MP): Moderate(n=87,87,176,0) | 6 | 2 | 7 | 0 |
| First injection cycle (MP): Severe (n=87,87,176,0) | 0 | 1 | 2 | 0 |
| Second injection cycle (OLEX): Mild (n=0,0,0,331) | 0 | 0 | 0 | 43 |
| Second injection cycle(OLEX):Moderate(n=0,0,0,331) | 0 | 0 | 0 | 18 |
| Second injection cycle (OLEX): Severe(n=0,0,0,331) | 0 | 0 | 0 | 3 |
| Third injection cycle (OLEX): Mild (n=0,0,0,331) | 0 | 0 | 0 | 23 |
| Third injection cycle (OLEX):Moderate(n=0,0,0,331) | 0 | 0 | 0 | 15 |
| Third injection cycle (OLEX): Severe (n=0,0,0,331) | 0 | 0 | 0 | 4 |
| Fourth injection cycle (OLEX): Mild (n=0,0,0,331) | 0 | 0 | 0 | 28 |
| Fourth injection cycle(OLEX):Moderate(n=0,0,0,331) | 0 | 0 | 0 | 19 |
| Fourth injection cycle (OLEX): Severe(n=0,0,0,331) | 0 | 0 | 0 | 1 |

Notes:

[38] - SES

[39] - SES

[40] - SES

[41] - SES

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Subjects With Occurrence of TEAEs by Worst Causal Relationship Overall and per Treatment Cycle

| | |
|-----------------|--|
| End point title | Number of Subjects With Occurrence of TEAEs by Worst Causal Relationship Overall and per Treatment Cycle |
|-----------------|--|

End point description:

The SES was the subset of all subjects treated in the MP and OLEX with study medication at least once.

Number of subjects who were evaluable for this measure at a given time period and were included in the assessment.

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

End point timeframe:

Baseline up to Week 66

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | OLEX (3 Injections) |
|---|----------------------|----------------------|----------------------|----------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 87 ^[42] | 87 ^[43] | 176 ^[44] | 331 ^[45] |
| Units: subjects | | | | |
| Overall: Related | 0 | 0 | 3 | 5 |
| Overall: Not related | 21 | 13 | 39 | 109 |
| First cycle (MP): Related (n=87,87,176,0) | 0 | 0 | 3 | 0 |
| First cycle (MP): Not related (n=87,87,176,0) | 21 | 13 | 39 | 0 |
| Second cycle (OLEX): Related (n=0,0,0,331) | 0 | 0 | 0 | 2 |
| Second cycle (OLEX): Not related (n=0,0,0,331) | 0 | 0 | 0 | 62 |
| Third cycle (OLEX): Related (n=0,0,0,331) | 0 | 0 | 0 | 2 |
| Third cycle (OLEX): Not related (n=0,0,0,331) | 0 | 0 | 0 | 40 |
| Fourth cycle (OLEX): Related (n=0,0,0,331) | 0 | 0 | 0 | 1 |
| Fourth cycle (OLEX): Not related (n=0,0,0,331) | 0 | 0 | 0 | 47 |

Notes:

[42] - SES

[43] - SES

[44] - SES

[45] - SES

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Subjects With Occurrence of TEAEs by Final Outcome Overall and per Treatment Cycle

| | |
|-----------------|--|
| End point title | Number of Subjects With Occurrence of TEAEs by Final Outcome Overall and per Treatment Cycle |
|-----------------|--|

End point description:

The SES was the subset of all subjects treated in the MP and OLEX with study medication at least once. Number of subjects who were evaluable for this measure at a given time period and were included in the assessment.

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

End point timeframe:

Baseline up to Week 66

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | OLEX (3 Injections) |
|---|----------------------|----------------------|----------------------|----------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 87 ^[46] | 87 ^[47] | 176 ^[48] | 331 ^[49] |
| Units: subjects | | | | |
| Overall: Resolved | 18 | 10 | 39 | 96 |
| Overall: Resolved with sequelae | 1 | 0 | 0 | 1 |
| Overall: Resolving | 0 | 2 | 1 | 7 |
| Overall: Not resolved | 2 | 1 | 1 | 8 |
| Overall: Unknown | 0 | 0 | 1 | 2 |
| Overall: Fatal | 0 | 0 | 0 | 0 |
| First cycle (MP): Resolved (n=87,87,176,0) | 18 | 10 | 39 | 0 |
| Firstcycle(MP):Resolvedwithsequelae(n=87,87,176,0) | 1 | 0 | 0 | 0 |
| First cycle (MP): Resolving(n=87,87,176,0) | 0 | 2 | 1 | 0 |
| First cycle (MP): Not resolved(n=87,87,176,0) | 2 | 1 | 1 | 0 |
| First cycle (MP): Unknown(n=87,87,176,0) | 0 | 0 | 1 | 0 |
| First cycle (MP): Fatal(n=87,87,176,0) | 0 | 0 | 0 | 0 |
| Second cycle (OLEX): Resolved(n=0,0,0,331) | 0 | 0 | 0 | 57 |
| Secondcycle(OLEX):Resolvedwithsequelae(n=0,0,0,331) | 0 | 0 | 0 | 0 |
| Second cycle (OLEX): Resolving(n=0,0,0,331) | 0 | 0 | 0 | 3 |
| Second cycle (OLEX): Not resolved(n=0,0,0,331) | 0 | 0 | 0 | 4 |
| Second cycle (OLEX): Unknown(n=0,0,0,331) | 0 | 0 | 0 | 0 |
| Second cycle (OLEX): Fatal(n=0,0,0,331) | 0 | 0 | 0 | 0 |
| Third cycle (OLEX): Resolved(n=0,0,0,331) | 0 | 0 | 0 | 37 |
| Thirdcycle(OLEX):Resolvedwithsequelae(n=0,0,0,331) | 0 | 0 | 0 | 0 |
| Third cycle (OLEX): Resolving(n=0,0,0,331) | 0 | 0 | 0 | 0 |
| Third cycle (OLEX): Not resolved(n=0,0,0,331) | 0 | 0 | 0 | 4 |
| Third cycle (OLEX): Unknown(n=0,0,0,331) | 0 | 0 | 0 | 1 |
| Third cycle (OLEX): Fatal(n=0,0,0,331) | 0 | 0 | 0 | 0 |
| Fourth cycle (OLEX): Resolved(n=0,0,0,331) | 0 | 0 | 0 | 39 |
| Fourthcycle(OLEX):Resolvedwithsequelae(n=0,0,0,331) | 0 | 0 | 0 | 1 |
| Fourth cycle (OLEX): Resolving(n=0,0,0,331) | 0 | 0 | 0 | 4 |
| Fourth cycle (OLEX): Not resolved(n=0,0,0,331) | 0 | 0 | 0 | 2 |
| Fourth cycle (OLEX): Unknown(n=0,0,0,331) | 0 | 0 | 0 | 2 |
| Fourth cycle (OLEX): Fatal(n=0,0,0,331) | 0 | 0 | 0 | 0 |

Notes:

[46] - SES

[47] - SES

[48] - SES

[49] - SES

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Subjects With Occurrence of TEAEs Leading to Discontinuation Overall and per Treatment Cycle

| | |
|-----------------|--|
| End point title | Number of Subjects With Occurrence of TEAEs Leading to Discontinuation Overall and per Treatment Cycle |
|-----------------|--|

End point description:

The SES was the subset of all subjects treated in the MP and OLEX with study medication at least once. Number of subjects who were evaluable for this measure at a given time period and were included in the assessment.

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

End point timeframe:

Baseline up to Week 66

| End point values | MP Low Dose Group | MP Mid Dose Group | MP High Dose Group | OLEX (3 Injections) |
|--|----------------------|----------------------|----------------------|----------------------|
| Subject group type | Subject analysis set | Subject analysis set | Subject analysis set | Subject analysis set |
| Number of subjects analysed | 87 ^[50] | 87 ^[51] | 176 ^[52] | 331 ^[53] |
| Units: subjects | | | | |
| Overall | 0 | 1 | 1 | 5 |
| First injection cycle (MP) (n=87,87,176,0) | 0 | 1 | 1 | 0 |
| Second injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 3 |
| Third injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 2 |
| Fourth injection cycle (OLEX) (n=0,0,0,331) | 0 | 0 | 0 | 0 |

Notes:

[50] - SES

[51] - SES

[52] - SES

[53] - SES

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Baseline up to Week 66

Adverse event reporting additional description:

The investigator asked the participant for adverse events (AEs) systematically at each visit.

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

Dictionary used

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

| | |
|--------------------|------|
| Dictionary version | 21.0 |
|--------------------|------|

Reporting groups

| | |
|-----------------------|--------------------|
| Reporting group title | MP: Low Dose Group |
|-----------------------|--------------------|

Reporting group description:

In MP, subjects randomized to low dose group were injected with doses of NT 201 ranging from 2 to 5 U/kg BW up to a total body dose of 125 U.

| | |
|-----------------------|--------------------|
| Reporting group title | MP: Mid Dose Group |
|-----------------------|--------------------|

Reporting group description:

In MP, subjects randomized to mid dose group were injected with doses of NT 201 ranging from 6 to 15 U/kg BW up to a total body dose of 375 U.

| | |
|-----------------------|---------------------|
| Reporting group title | MP: High Dose Group |
|-----------------------|---------------------|

Reporting group description:

In MP, subjects randomized to high dose group were injected with doses of NT 201 ranging from 8 to 20 U/kg BW up to a total body dose of 500 U.

| | |
|-----------------------|---------------------|
| Reporting group title | OLEX (3 Injections) |
|-----------------------|---------------------|

Reporting group description:

Subjects who completed MP and qualified for further participation in the study were treated with doses of NT 201 between 8 and 20 U/kg (maximum body dose of 500 U in subjects with >25kg BW) in each of the three injection cycles in OLEX.

| Serious adverse events | MP: Low Dose Group | MP: Mid Dose Group | MP: High Dose Group |
|---|--------------------|--------------------|---------------------|
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 2 / 87 (2.30%) | 1 / 87 (1.15%) | 2 / 176 (1.14%) |
| number of deaths (all causes) | 0 | 0 | 0 |
| number of deaths resulting from adverse events | | | |
| Investigations | | | |
| Electroencephalogram | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Neoplasms benign, malignant and unspecified (incl cysts and polyps) | | | |
| Spinal cord neoplasm | | | |

| | | | |
|---|----------------|----------------|-----------------|
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Injury, poisoning and procedural complications | | | |
| Shunt malfunction | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Thermal burn | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Surgical and medical procedures | | | |
| CSF shunt operation | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 | | | |
| Brain oedema | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 1 / 87 (1.15%) | 0 / 176 (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 |
| Epilepsy | | | |
| subjects affected / exposed | 1 / 87 (1.15%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Seizure | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Generalised tonic-clonic seizure | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 |

| | | | |
|--|----------------|----------------|-----------------|
| Status epilepticus | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 | | | |
| Influenza like illness | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Gastrointestinal disorders | | | |
| Hiatus hernia | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Cyclic vomiting syndrome | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Gastroesophageal reflux disease | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Vomiting | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 | | | |
| Aspiration | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 1 / 87 (1.15%) | 0 / 176 (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 arrest | | | |

| | | | |
|---|----------------|----------------|-----------------|
| subjects affected / exposed | 0 / 87 (0.00%) | 1 / 87 (1.15%) | 0 / 176 (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 |
| Pneumonia aspiration | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 | | | |
| Bronchitis | | | |
| subjects affected / exposed | 2 / 87 (2.30%) | 0 / 87 (0.00%) | 1 / 176 (0.57%) |
| occurrences causally related to treatment / all | 0 / 2 | 0 / 0 | 0 / 1 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pneumonia | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 2 / 176 (1.14%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 3 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Appendicitis | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Bronchitis bacterial | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Influenza | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Peritonitis | | | |

| | | | |
|---|----------------|----------------|-----------------|
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 1 / 176 (0.57%) |
| occurrences causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| deaths causally related to treatment / all | 0 / 0 | 0 / 0 | 0 / 0 |
| Pertussis | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Pharyngitis | | | |
| subjects affected / exposed | 1 / 87 (1.15%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Pneumonia bacterial | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 | 1 / 87 (1.15%) | 0 / 87 (0.00%) | 0 / 176 (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 |
| Urinary tract infection | | | |
| subjects affected / exposed | 0 / 87 (0.00%) | 0 / 87 (0.00%) | 0 / 176 (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 | OLEX (3 Injections) | | |
| Total subjects affected by serious adverse events | | | |
| subjects affected / exposed | 16 / 331 (4.83%) | | |
| number of deaths (all causes) | 0 | | |
| number of deaths resulting from adverse events | 0 | | |
| Investigations | | | |
| Electroencephalogram | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Neoplasms benign, malignant and | | | |

| | | | |
|---|-----------------|--|--|
| unspecified (incl cysts and polyps) | | | |
| Spinal cord neoplasm | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Injury, poisoning and procedural complications | | | |
| Shunt malfunction | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Thermal burn | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Surgical and medical procedures | | | |
| CSF shunt operation | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Nervous system disorders | | | |
| Brain oedema | | | |
| subjects affected / exposed | 0 / 331 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Epilepsy | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Seizure | | | |
| subjects affected / exposed | 2 / 331 (0.60%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Generalised tonic-clonic seizure | | | |

| | | | |
|--|-----------------|--|--|
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Status epilepticus | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| General disorders and administration site conditions | | | |
| Influenza like illness | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 1 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Gastrointestinal disorders | | | |
| Hiatus hernia | | | |
| subjects affected / exposed | 2 / 331 (0.60%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Cyclic vomiting syndrome | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Gastrooesophageal reflux disease | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Vomiting | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Respiratory, thoracic and mediastinal disorders | | | |
| Aspiration | | | |

| | | | |
|---|-----------------|--|--|
| subjects affected / exposed | 0 / 331 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Respiratory arrest | | | |
| subjects affected / exposed | 0 / 331 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumonia aspiration | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Skin and subcutaneous tissue disorders | | | |
| Angioedema | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Infections and infestations | | | |
| Bronchitis | | | |
| subjects affected / exposed | 0 / 331 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumonia | | | |
| subjects affected / exposed | 0 / 331 (0.00%) | | |
| occurrences causally related to treatment / all | 0 / 0 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Appendicitis | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Bronchitis bacterial | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Influenza | | | |

| | | | |
|---|-----------------|--|--|
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Peritonitis | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pertussis | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pharyngitis | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Pneumonia bacterial | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 2 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Upper respiratory tract infection | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |
| Urinary tract infection | | | |
| subjects affected / exposed | 1 / 331 (0.30%) | | |
| occurrences causally related to treatment / all | 0 / 1 | | |
| deaths causally related to treatment / all | 0 / 0 | | |

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

| Non-serious adverse events | MP: Low Dose Group | MP: Mid Dose Group | MP: High Dose Group |
|--|-------------------------|-------------------------|--------------------------|
| Total subjects affected by non-serious adverse events subjects affected / exposed | 5 / 87 (5.75%) | 3 / 87 (3.45%) | 6 / 176 (3.41%) |
| Infections and infestations Nasopharyngitis subjects affected / exposed occurrences (all) | 5 / 87 (5.75%) 5 | 3 / 87 (3.45%) 5 | 6 / 176 (3.41%) 6 |

| Non-serious adverse events | OLEX (3 Injections) | | |
|--|----------------------------|--|--|
| Total subjects affected by non-serious adverse events subjects affected / exposed | 18 / 331 (5.44%) | | |
| Infections and infestations Nasopharyngitis subjects affected / exposed occurrences (all) | 18 / 331 (5.44%) 22 | | |

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

| Date | Amendment |
|---------------|---|
| 24 April 2015 | Incorporated FDA recommendations based on the draft FDA Guidance for Industry, 'Suicidal ideation and behavior: prospective assessment of occurrence in clinical trials'. |

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported