



Clinical trial results:

A Phase 3, Multicenter, Open-label Study to Determine the Efficacy, Safety, and Pharmacokinetics of Buccally Administered MHOS/SHP615 in Pediatric Subjects With Status Epilepticus (Convulsive) in the Hospital or Emergency Room

Summary

EudraCT number	2020-000226-26
Trial protocol	Outside EU/EEA
Global end of trial date	19 August 2019

Results information

Result version number	v1
This version publication date	01 March 2020
First version publication date	01 March 2020

Trial information

Trial identification

Sponsor protocol code	SHP615-301
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Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT03336645
WHO universal trial number (UTN)	-

Notes:

Sponsors

Sponsor organisation name	Shire
Sponsor organisation address	300 Shire Way, Lexington, United States, MA 02421
Public contact	Study Director, Shire, 1 866-8425335, ClinicalTransparency@shire.com
Scientific contact	Study Director, Shire, 1 866-8425335, ClinicalTransparency@shire.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	19 August 2019
Is this the analysis of the primary completion data?	No

Global end of trial reached?	Yes
Global end of trial date	19 August 2019
Was the trial ended prematurely?	No

Notes:

General information about the trial

Main objective of the trial:

The primary objective of this study was to assess the efficacy of midazolam hydrochloride oromucosal solution (MHOS/SHP615) administered buccally in pediatric subjects with convulsive status epilepticus (CSE).

Protection of trial subjects:

The study was conducted in accordance with current applicable industry regulations, International Council for Harmonisation (ICH) Good Clinical Practice (GCP) Guideline E6 (1996) and any updates, European Union (EU) Directive 2001/20/EC and its updates, the ethical principles in the Declaration of Helsinki, and local ethical and legal requirements.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	23 October 2017
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	Japan: 25
Worldwide total number of subjects	25
EEA total number of subjects	0

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)	5
Children (2-11 years)	18
Adolescents (12-17 years)	2
Adults (18-64 years)	0
From 65 to 84 years	0

85 years and over	0
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Subject disposition

Recruitment

Recruitment details:

The study was conducted at 28 study centers in the Japan between 23 October 2017 (first subject first visit) and 19 August 2019 (last subject last visit).

Pre-assignment

Screening details:

A total of 25 subjects were enrolled, received treatment and completed the study.

Period 1

Period 1 title	Overall Study (overall period)
Is this the baseline period?	Yes
Allocation method	Not applicable
Blinding used	Not blinded

Arms

Arm title	SHP615
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Arm description:

Subjects received an oromucosal single fixed age-specific dose (2.5 mg: 3 months to less than [$<$] 1 year, 5 mg: 1 to $<$ 5 years, 7.5 mg: 5 to $<$ 10 years and 10 mg: 10 to $<$ 18 years) of MHOS/SHP615 solution on Day 1.

Arm type	Experimental
Investigational medicinal product name	Midazolam Hydrochloride Oromucosal Solution
Investigational medicinal product code	SHP615
Other name	
Pharmaceutical forms	Oromucosal solution
Routes of administration	Buccal use

Dosage and administration details:

Subjects received MHOS/SHP615 oromucosal solution through buccal route.

Number of subjects in period 1	SHP615
Started	25
Completed	25

Baseline characteristics

Reporting groups

Reporting group title	SHP615
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Reporting group description:

Subjects received an oromucosal single fixed age-specific dose (2.5 mg: 3 months to less than [$<$] 1 year, 5 mg: 1 to $<$ 5 years, 7.5 mg: 5 to $<$ 10 years and 10 mg: 10 to $<$ 18 years) of MHOS/SHP615 solution on Day 1.

Reporting group values	SHP615	Total	
Number of subjects	25	25	
Age categorical			
Units: Subjects			
Age continuous			
Units: years			
arithmetic mean	4.63		
standard deviation	± 4.033	-	
Gender categorical			
Units: Subjects			
Female	16	16	
Male	9	9	
Race (NIH/OMB)			
Units: Subjects			
American Indian or Alaska Native	0	0	
Asian	25	25	
Native Hawaiian or Other Pacific Islander	0	0	
Black or African American	0	0	
White	0	0	
More than one race	0	0	
Unknown or Not Reported	0	0	
Ethnicity (NIH/OMB)			
Units: Subjects			
Hispanic or Latino	0	0	
Not Hispanic or Latino	25	25	
Unknown or Not Reported	0	0	

End points

End points reporting groups

Reporting group title	SHP615
Reporting group description:	
Subjects received an oromucosal single fixed age-specific dose (2.5 mg: 3 months to less than [$<$] 1 year, 5 mg: 1 to $<$ 5 years, 7.5 mg: 5 to $<$ 10 years and 10 mg: 10 to $<$ 18 years) of MHOS/SHP615 solution on Day 1.	

Primary: Percentage of Subjects with Response Rate

End point title	Percentage of Subjects with Response Rate ^[1]
End point description:	
Response rate was defined as the percentage of subjects with therapeutic success. Therapeutic success was defined as the cessation of visible seizure activity within 10 minutes (mins) with a sustained absence of visible seizure activity for 30 minutes following a single dose of MHOS/SHP615 without the need for additional rescue medication. Percentage of subjects with response rate were reported. Full Analysis Set (FAS) consisted of all subjects in the safety set who had at least 1 assessment for determination of therapeutic success (date and time of the investigational product [IP] administration and seizure cessation for the initial seizure; subjects with no recurrence of seizure within 30 minutes post-dose) performed after the administration of the IP.	
End point type	Primary
End point timeframe:	
From start of study drug administration up to 30 minutes post-dose	

Notes:

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

Justification: No statistical and comparison analysis were performed for this endpoint.

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	25			
Units: Percentage of subjects				
number (not applicable)	80.0			

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Subjects Who had Sustained Absence of Seizure Activity for at Least 1, 4 and 6 Hours

End point title	Percentage of Subjects Who had Sustained Absence of Seizure Activity for at Least 1, 4 and 6 Hours
End point description:	
Percentage of subject whose seizure event stopped within 10 mins of a single dose administration of SHP615 and who had sustained absence of seizure activity for at least 1, 4, and 6 hours were reported. FAS consisted of all subjects in the safety set who had at least 1 assessment for determination of therapeutic success (date and time of the IP administration and seizure cessation for the initial seizure; subjects with no recurrence of seizure within 30 minutes post-dose) performed after the administration of the IP.	
End point type	Secondary

End point timeframe:

From start of study drug administration up to 1, 4 and 6 hours post-dose

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	25			
Units: Percentage of subjects				
number (not applicable)				
At least 1 hour	68.0			
At least 4 hours	36.0			
At least 6 hours	32.0			

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Subjects with Time to Resolution of Seizures (Convulsions)

End point title	Number of Subjects with Time to Resolution of Seizures (Convulsions)
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End point description:

Time to resolution of seizures (convulsions) was calculated as time from IP administration to the end of the initial seizure or administration of rescue anticonvulsant medication, whichever occurs first, the initial seizure referred to the seizure that triggered the use of the IP and that was captured. Number of subjects with time to resolution of seizures (convulsions) was reported. FAS consisted of all subjects in the safety set who had at least 1 assessment for determination of therapeutic success (date and time of the IP administration and seizure cessation for the initial seizure; subjects with no recurrence of seizure within 30 minutes post-dose) performed after the administration of the IP.

End point type	Secondary
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End point timeframe:

From start of study drug administration to follow-up (8 days)

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	25			
Units: subjects	21			

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Subjects with Time to Recovery of Consciousness

End point title	Number of Subjects with Time to Recovery of Consciousness
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End point description:

Time to recovery of consciousness (in minutes) was calculated only for subjects who lost consciousness pre-dose as time from IP administration to recovery of consciousness post-dose or administration of rescue anticonvulsant medication, whichever occurs first. Number of subjects with time to recovery of consciousness was reported. FAS consisted of all subjects in the safety set who had at least 1 assessment for determination of therapeutic success (date and time of the IP administration and seizure cessation for the initial seizure; subjects with no recurrence of seizure within 30 minutes post-dose) performed after the administration of the IP.

End point type	Secondary
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End point timeframe:

From start of study drug administration to follow-up (8 days)

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	25			
Units: subjects	19			

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Subjects Who Required Additional Anticonvulsant Medication for Ongoing Status Epilepticus (SE)

End point title	Percentage of Subjects Who Required Additional Anticonvulsant Medication for Ongoing Status Epilepticus (SE)
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End point description:

Percentage of subjects who required additional anticonvulsant medication for ongoing SE 10 minutes after a single dose of SHP615 were reported. FAS consisted of all subjects in the safety set who had at least 1 assessment for determination of therapeutic success (date and time of the IP administration and seizure cessation for the initial seizure; subjects with no recurrence of seizure within 30 minutes post-dose) performed after the administration of the IP.

End point type	Secondary
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End point timeframe:

10 minutes post-dose

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	25			
Units: Percentage of Subjects				
number (not applicable)	16.0			

Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Subjects Who Failed to Respond to the Treatment with SHP615

End point title	Percentage of Subjects Who Failed to Respond to the Treatment with SHP615
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End point description:

Treatment failure/non-responder was defined as subjects with continuing seizure activity and/or the need for any additional rescue medication according to the participating healthcare setting protocol or guideline, for 10 minutes or more after a single dose of the IP. FAS consisted of all subjects in the safety set who had at least 1 assessment for determination of therapeutic success (date and time of the IP administration and seizure cessation for the initial seizure; subjects with no recurrence of seizure within 30 minutes post-dose) performed after the administration of the IP.

End point type	Secondary
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End point timeframe:

10 minutes post-dose

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	25			
Units: Percentage of subjects				
number (not applicable)	16.0			

Statistical analyses

No statistical analyses for this end point

Secondary: Concentration of SHP615 in Plasma at 10 Minutes (C10)

End point title	Concentration of SHP615 in Plasma at 10 Minutes (C10)
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End point description:

Concentration of SHP615 in plasma at 10 minutes was reported. Pharmacokinetic (PK) set consisted of all subjects who received a single dose of the IP and for whom at least 1 PK blood sample was collected post-dose. Here the number of subjects analyzed signifies subjects who were evaluable for this measure.

End point type	Secondary
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End point timeframe:

10 minutes post-dose

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	16			
Units: nanogram per milliliter (ng/mL)				
arithmetic mean (standard deviation)	45.2 (± 21.3)			

Statistical analyses

No statistical analyses for this end point

Secondary: Maximum Plasma Concentration (C_{max}) of SHP615

End point title	Maximum Plasma Concentration (C _{max}) of SHP615
End point description: C _{max} of SHP615 in plasma was reported. PK set consisted of all subjects who received a single dose of the IP and for whom at least 1 PK blood sample was collected post-dose. Here the number of subjects analyzed signifies subjects who were evaluable for this measure.	
End point type	Secondary
End point timeframe: 1, 3, 6 hours post-dose	

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	16			
Units: ng/mL				
arithmetic mean (standard deviation)	78.0 (± 16.4)			

Statistical analyses

No statistical analyses for this end point

Secondary: Area Under the Concentration-time Curve From Time Zero to 10 Minutes (AUC₀₋₁₀) of SHP615 in Plasma

End point title	Area Under the Concentration-time Curve From Time Zero to 10 Minutes (AUC ₀₋₁₀) of SHP615 in Plasma
End point description: AUC ₀₋₁₀ of SHP615 in plasma was reported. Here min ng/mL is minutes nanogram per milliliter. PK set consisted of all subjects who received a single dose of the IP and for whom at least 1 PK blood sample was collected post-dose. Here the number of subjects analyzed signifies subjects who were evaluable for this measure.	
End point type	Secondary
End point timeframe: Pre-dose, 10 minutes post-dose	

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	16			
Units: min ng/mL				
arithmetic mean (standard deviation)	304 (\pm 149)			

Statistical analyses

No statistical analyses for this end point

Secondary: Area Under the Concentration-time Curve From Time Zero to 60 Minutes (AUC0-60) of SHP615 in Plasma

End point title	Area Under the Concentration-time Curve From Time Zero to 60 Minutes (AUC0-60) of SHP615 in Plasma
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End point description:

AUC0-60 of SHP615 in plasma was reported. PK set consisted of all subjects who received a single dose of the IP and for whom at least 1 PK blood sample was collected post-dose. Here the number of subjects analyzed signifies subjects who were evaluable for this measure.

End point type	Secondary
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End point timeframe:

Pre-dose, 60 minutes post-dose

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	16			
Units: min ng/mL				
arithmetic mean (standard deviation)	2965 (\pm 592)			

Statistical analyses

No statistical analyses for this end point

Secondary: Area Under the Concentration-time Curve From Time Zero to 180 Minutes (AUC0-180) of SHP615 in Plasma

End point title	Area Under the Concentration-time Curve From Time Zero to 180 Minutes (AUC0-180) of SHP615 in Plasma
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End point description:

AUC0-180 of SHP615 in plasma was reported. PK set consisted of all subjects who received a single dose of the IP and for whom at least 1 PK blood sample was collected post-dose. Here the number of subjects analyzed signifies subjects who were evaluable for this measure.

End point type	Secondary
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End point timeframe:

Pre-dose, 180 minutes post-dose

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	16			
Units: min ng/mL				
arithmetic mean (standard deviation)	4411 (\pm 1140)			

Statistical analyses

No statistical analyses for this end point

Secondary: Area Under the Concentration-time Curve From Time Zero to Infinity (AUC_{0-inf}) of SHP615 in Plasma

End point title	Area Under the Concentration-time Curve From Time Zero to Infinity (AUC _{0-inf}) of SHP615 in Plasma
End point description:	
AUC(0-infinity) of SHP615 in plasma was reported. PK set consisted of all subjects who received a single dose of the IP and for whom at least 1 PK blood sample was collected post-dose. Here the number of subjects analyzed signifies subjects who were evaluable for this measure.	
End point type	Secondary
End point timeframe:	
Pre-dose, 1, 3, and 6 hours post-dose	

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	16			
Units: min ng/mL				
arithmetic mean (standard deviation)	5847 (\pm 2599)			

Statistical analyses

No statistical analyses for this end point

Secondary: Time at Maximum Concentration (T_{max}) of SHP615 in Plasma

End point title	Time at Maximum Concentration (T _{max}) of SHP615 in Plasma
End point description:	
T _{max} of SHP615 in plasma was reported. PK set consisted of all subjects who received a single dose of the IP and for whom at least 1 PK blood sample was collected post-dose. Here the number of subjects analyzed signifies subjects who were evaluable for this measure.	
End point type	Secondary
End point timeframe:	
1, 3, and 6 hours post-dose	

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	16			
Units: minutes				
median (full range (min-max))	20.5 (15.5 to 28.0)			

Statistical analyses

No statistical analyses for this end point

Secondary: Elimination Half-life (t_{1/2}) of SHP615 in Plasma

End point title	Elimination Half-life (t _{1/2}) of SHP615 in Plasma
End point description:	
t _{1/2} of SHP615 in plasma was reported. PK set consisted of all subjects who received a single dose of the IP and for whom at least 1 PK blood sample was collected post-dose. Here the number of subjects analyzed signifies subjects who were evaluable for this measure.	
End point type	Secondary
End point timeframe:	
1, 3, and 6 hours post-dose	

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	16			
Units: minutes				
median (full range (min-max))	115 (90.6 to 303)			

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Subjects with Respiratory Depression

End point title	Number of Subjects with Respiratory Depression
End point description:	
Persistent decrease in oxygen saturation to <92 percent (%) measured at 10 minutes, 30 minutes, and 4, 6, and 24 hours post-dose (ie, <92% on room air for 2 minutes or more after dosing while monitoring [per healthcare setting protocol and/or the clinical judgment of the physician]) and increase in respiratory effort such that assisted ventilation is used (bag-valve-mask ventilation or endotracheal intubation). Safety set consisted of all subjects who had received a single dose of the IP, regardless of whether IP administration was documented to be complete or not on the IP administration page of the electronic case report form (eCRF).	

End point type	Secondary
End point timeframe:	
From start of study drug administration to follow-up (8 days)	

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	25			
Units: subjects				
Persistent Decrease in Oxygen Saturation	0			
Increase in Respiratory Effort	1			

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Subjects With Aspiration Pneumonia Reported as Treatment Emergent Adverse Events (TEAEs)

End point title	Number of Subjects With Aspiration Pneumonia Reported as Treatment Emergent Adverse Events (TEAEs)
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End point description:

Number of subjects with aspiration pneumonia were reported as TEAEs. Safety set consisted of all subjects who had received a single dose of the IP, regardless of whether IP administration was documented to be complete or not on the IP administration page of the eCRF.

End point type	Secondary
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End point timeframe:

From start of study drug administration to follow-up (8 days)

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	25			
Units: subjects	0			

Statistical analyses

No statistical analyses for this end point

Secondary: Change From Baseline in Riker Sedation-Agitation Scale at 24 Hours Post-dose

End point title	Change From Baseline in Riker Sedation-Agitation Scale at 24 Hours Post-dose
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End point description:

Sedation - Agitation was assessed using the Riker Sedation-Agitation Scale (SAS) by the following 7-point scale: 7=dangerous agitation; 6=very agitated; 5=agitated; 4=calm, cooperative; 3=sedated; 2=very sedated; 1=un arousable. Change from baseline in riker sedation-agitation scale at 24 hours post-dose was reported. Safety set consisted of all subjects who had received a single dose of the IP, regardless of whether IP administration was documented to be complete or not on the IP administration page of the eCRF. Here the number of subjects analysed signifies subjects who were evaluable for this measure.

End point type	Secondary
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End point timeframe:

Baseline, 24 hours post-dose

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	23			
Units: Score on the scale				
arithmetic mean (standard deviation)	2.2 (± 1.23)			

Statistical analyses

No statistical analyses for this end point

Secondary: Number of Subjects With Treatment-Emergent Adverse Events (TEAEs)

End point title	Number of Subjects With Treatment-Emergent Adverse Events (TEAEs)
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End point description:

An adverse event (AE) was any untoward medical occurrence in a clinical investigation subjects administered a pharmaceutical product and that does not necessarily had a causal relationship with this treatment. TEAEs are defined as AEs that start or deteriorate on or after the date of the first dose of IP and no later than 3 days following the last dose of IP. Safety set consisted of all subjects who had received a single dose of the IP, regardless of whether IP administration was documented to be complete or not on the IP administration page of the eCRF.

End point type	Secondary
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End point timeframe:

From start of study drug administration to follow-up (8 days)

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	25			
Units: subjects	9			

Statistical analyses

No statistical analyses for this end point

Secondary: Change From Baseline in Oxygen Saturation at 24 Hours Post-dose

End point title	Change From Baseline in Oxygen Saturation at 24 Hours Post-dose
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End point description:

Oxygen saturation at baseline was measured and recorded on room air. The investigator had recorded the oxygen saturation, oxygen delivery system and amount of oxygen administered during the study. Change from baseline in oxygen saturation at 24 hours post-dose was reported. Safety set consisted of all subjects who had received a single dose of the IP, regardless of whether IP administration was documented to be complete or not on the IP administration page of the eCRF. Here the number of subjects analysed signifies subjects who were evaluable for this measure.

End point type	Secondary
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End point timeframe:

Baseline, 24 hours post-dose

End point values	SHP615			
Subject group type	Reporting group			
Number of subjects analysed	14			
Units: Percentage of oxygen saturation				
arithmetic mean (standard deviation)	3.7 (± 10.21)			

Statistical analyses

No statistical analyses for this end point

Adverse events

Adverse events information

Timeframe for reporting adverse events:

From start of study drug administration to follow up (8 days)

Assessment type	Non-systematic
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Dictionary used

Dictionary name	MedDRA
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Dictionary version	20.0
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Reporting groups

Reporting group title	SHP615
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Reporting group description:

Subjects received an oromucosal single fixed age-specific dose (2.5 mg: 3 months to less than [$<$] 1 year, 5 mg: 1 to $<$ 5 years, 7.5 mg: 5 to $<$ 10 years and 10 mg: 10 to $<$ 18 years) of MHOS/SHP615 solution on Day 1.

Serious adverse events	SHP615		
Total subjects affected by serious adverse events			
subjects affected / exposed	3 / 25 (12.00%)		
number of deaths (all causes)	0		
number of deaths resulting from adverse events	0		
Nervous system disorders			
Seizure cluster			
subjects affected / exposed	1 / 25 (4.00%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Status epilepticus			
subjects affected / exposed	1 / 25 (4.00%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Respiratory, thoracic and mediastinal disorders			
Respiratory depression			
subjects affected / exposed	1 / 25 (4.00%)		
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	SHP615		
Total subjects affected by non-serious adverse events			
subjects affected / exposed	2 / 25 (8.00%)		
Respiratory, thoracic and mediastinal disorders			
Respiratory depression			
subjects affected / exposed	2 / 25 (8.00%)		
occurrences (all)	2		

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
08 July 2017	<p>Amendment 1</p> <ul style="list-style-type: none">- To clarify that a subject should be excluded if their exact age is not known at the time of IP administration.- To replace "drugs that inhibit or induce CYP3A" with "concomitant drugs determined by the investigator to have a contraindication to the use of benzodiazepines" in Exclusion Criterion 6.- To change the schedule of assessments for oxygen saturation, 12-lead ECG, and hematology assessments.- To add details on requirement for oxygen saturation to be measured on room air.- To clarify responsibilities of investigator/sub-investigator versus qualified staff members.- To add requirement for laboratory blood samples to be repeated every 6 months if no seizure occurred that resulted in IP administration.- To add time windows for buccal cavity assessment.- To add requirement to re-sign ICF at time of admission if more than 3 months have elapsed between initial informed consent and seizure.- To update blood volume to be drawn.- To change creatinine clearance calculation method from Cockcroft and Gault to Schwartz.
28 August 2017	<p>Amendment 2</p> <ul style="list-style-type: none">- To clarify duration of condom use for 7 days after IP administration.- To update footnotes for schedules of assessments and recommended prescreening procedures and assessments.- To remove amylase from the clinical laboratory assessments
18 December 2017	<p>Amendment 3</p> <ul style="list-style-type: none">- To include an additional exclusion criterion to omit subjects with seizures due to severe cases of encephalitis or meningitis, as determined by the investigator.- To remove assessment of Riker SAS and 12-lead ECG at 10 minutes after IP administration, and add collection of 12-lead ECG at 1 hour after IP administration.- To remove AE monitoring at screening/baseline.

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported