INTERIM CLINICAL STUDY REPORT SYNOPSIS: EP0034

Name of company: UCB Pharma	Individual study table referring to part of the dossier: Not applicable	(For National Authority Use Only)
Name of finished product: Lacosamide	Volume : Not applicable	- Variati
Name of active ingredient: SPM 927 (lacosamide, LCM)	Page: Not applicable	nsionso
Title of study: A Multicenter, C Efficacy and Safety of Lacosan with Partial-Onset Seizures	Open-Label, Long-Term Ex nide as Adjunctive Therapy	xtension Study to Investigate the in Pediatric Subjects with Epilepsy
Investigators: This is an ongoi the clinical cutoff date of 01 No	ng multicenter study; 96 in ov 2016.	vestigators have enrolled subjects as of
Study sites: As of the clinical of	cutoff date, 96 sites have en	rolled subjects in the study.
Publications (references): Nor	ne.	×.
is approximately 2 years and 2 First subject enrolled: 13 Aug Last subject completed: This clinical cutoff date for this inter 01 Nov 2016.	months. 5 2014 study is ongoing. The rim report was	
Objectives: The primary object of LCM in pediatric subjects.	tive of this study is to asses	s the long-term safety and tolerability
The secondary objective of this in pediatric subjects.	study is to assess the effica	acy of LCM during long-term exposure
The other objectives of this stud development during long-term	dy are to assess behavior, co LCM exposure in pediatric	ognition, quality of life, and subjects.
The purpose of this interim clin data in pediatric subjects with p LCM treatment of partial-onset only safety results are presented	ical study report (CSR) is t partial-onset seizures in supp seizures in pediatric subject d in this interim CSR.	to provide available long-term safety port of a regulatory submission for cts aged 4 years and above; therefore,
A		
Methodology: EP0034 is an or long-term safety and efficacy d treated with LCM oral solution	agoing Phase 3, multicenter ata in pediatric subjects wit or LCM tablets as adjuncti	, open-label, extension study to obtain the pilepsy with partial-onset seizures ve therapy.

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participation could enroll into EP0034 for a maximum duration of approximately 2 years per subject. However, subjects in EP0034 who originated from SP0967 are excluded from the safety data presentations in this submission because these subjects are outside of the target age group for this submission.

EP0034 includes a Treatment Period, Taper Period, and Safety Follow-up Period, which are summarized in the following subsections.

Treatment Period

After completion of the blinded Transition Period in the primary study, all subjects are transitioned to 1 of the following LCM doses according to their weight at Baseline of the primary study: LCM 10mg/kg/day (oral solution) for subjects weighing \leq 30kg, LCM 6mg/kg/day (oral solution) for subjects weighing \geq 30kg to <50kg, and LCM 300mg/day (tablets) for subjects weighing \geq 50kg. Subjects remained on this dose during at least their first week in the Treatment Period of EP0034. After 1 week in EP0034, the investigator may have adjusted the LCM dose during the Treatment Period within a range of 2mg/kg/day to 12mg/kg/day for the oral solution and 100mg/day to 600mg/day for the tablets, Regardless of formulation, the maximum dose allowed is 600mg/day or 12mg/kg/day, whichever is lower based on body weight. Subjects may take either oral solution or tablets during the Treatment Period, based on clinical judgment, regardless of their weight. Subjects may have been allowed to switch from 1 formulation to the other formulation during the Treatment Period based on clinical judgment.

At the completion of the study, or at the Early Termination Visit (ETV) for subjects who prematurely discontinue the study, investigators are to discuss treatment options with the subject and/or their legal representative(s) to best manage the subject's epilepsy. Taper of LCM may not be required for some subjects, depending on the treatment option selected by the investigator in consultation with the subject and/or legal representative(s).

Subjects who do not undergo taper of LCM should complete Visit 13/Termination Visit or the ETV and then complete the Safety Follow-up (SFU) Telephone Contact 30 days (-1/+3 days) after the final dose of LCM. The SFU Visit is not required for subjects who complete the study and who do not undergo taper of LCM. Subjects who do undergo taper of LCM should complete Visit 13/Termination Visit or the ETV and enter the Taper Period.

Taper Period

The Taper Period (up to 4 weeks, depending on dose level achieved) is required for subjects who complete the study or withdraw from treatment during the study if the following doses are achieved: LCM \geq 3mg/kg/day for subjects receiving oral solution or LCM \geq 150mg/day for subjects taking tablets; lower doses do not require a taper. A Taper Visit will be completed at the end of the Taper Period. A slower taper is permitted, if medically necessary. In case of an

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Name of active ingredient:	Page: Not applicable	Dillo
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emergency, a faster taper is per possible.	mitted after discussion with the M	ledical Monitor, whenever
End of Study and SFU Period		at los
Subjects who complete the stud	ly or withdraw prematurely from t	he study, and who discontinue or the final dose of LCM A SEU
Telephone Contact is required	for all subjects (those who comple	te the study as planned or
withdraw prematurely from the	study). This telephone contact wi	ll occur 30 days (-1/+3 days)
after the final dose of LCM.	ducted at the discussion laft -	, v
Unscheduled visits may be con	ducted at the discretion of the inve	estigator.
Number of subjects (planned	and analyzed): Approximately 5	00 subjects from SP0967 and
previously enrolled in SP0967	are not included in this interim rer	bort because these subjects are
outside of the target age group	for this submission. As of the 01 N	Nov 2016 clinical cutoff date for
this interim CSR, 283 subjects	from SP0969 had been enrolled an	nd received at least 1 dose of

LCM.

Diagnosis and main criteria for inclusion: This study enrolled male and female subjects aged 4 to ≤ 17 years with a diagnosis of epilepsy with partial-onset seizures who had completed the Transition Period of SP0967 or SP0969 and were expected to benefit from participation in an open-label extension study with LCM, in the opinion of the investigator.

Test product, doses and mode of administration, batch numbers: Investigational medicinal product is provided as LCM oral solution (LCM 10mg/mL) and LCM tablets (LCM 50mg and LCM 100mg).

The oral solution formulation is colorless to pale yellow in appearance.

The 50mg tablets are light pink, oval, film-coated tablets debossed with "SP" on 1 side and "50" on the other. The 100mg tablets are dark yellow, oval, film-coated tablets debossed with "SP" on 1 side and "100" on the other.

For LCM oral solution, the following batch numbers were used as of the clinical cutoff date: BX1011063, BX1011064, BX1011065, BX1011066, BX1012414, BX1012413, BX102710, and BX1012711, BX1013589, BX1013590, BX1013591, and BX1013592.

For LCM tablets, the following batch numbers were used as of the clinical cutoff date: 50mg bottles: BX1011002, BX1012445, BX1012792, and BX1013472; 100mg bottles: BX1011003, BX1012446, BX1012793, and BX1013473.

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Name of active ingredient: SPM 927 (lacosamide, LCM)	Page: Not applicable	Or Valla
Duration of treatment: The ma EP0034 will be approximately 2	aximum duration of LCM adminis years.	tration per subject during
Reference therapy, doses and r	mode of administration, batch n	umbers: Not applicable.
Criteria for evaluation:		2 SLC
Efficacy: Efficacy assessments a	are not included in this interim CS	SR. N
Safety: The safety variables eval	luated in this interim CSR include	the following:
• Adverse event (AE) reportin	g J Olica	
 gamma-glutamyltransferase; ≥5 years of age) Electrocardiograms (ECGs) Physical (including Tanner S and neurological examinatio 	endocrinology for all subjects; ar Stage, if applicable depending on s	nd urinalysis for subjects subject's developmental status)
• Vital signs (blood pressure a	nd pulse rate)	
• Body weight and height		
Statistical methods: EP0034 is a clinical cutoff date of 01 Nov 2 not included. Some safety measu Behavior Checklist, Behavior Ra Inventory of Executive Function Development-III); no efficacy of	an ongoing study. The database for 2016; data reported after this date ares are not included in this interin ating Inventory of Executive Func- Preschool Version, and Bayley S r health outcomes measures are in	for this interim CSR is based on for the ongoing subjects were m CSR (eg, Achenbach Child ction /Behavior Rating Scales of Infant and Toddler cluded in this interim CSR.
Descriptive statistics are display parameters, the number and perc denominator for percentages is b analysis. For continuous parame standard deviation, median, min	ed to provide an overview of the s centage of subjects in each categor based on the number of subjects ap ters, descriptive statistics include imum, and maximum.	study results. For categorical ry are presented. The ppropriate for the purpose of number of subjects (n), mean,
In general, summaries are preser subject's age at time of entry into 6 months to <1 year; 1 to <2 yea	nted overall for all subjects and ad o study EP0034, using the follow rs; 2 to <4 years; total <4 years; 4	Iditionally based on the ing age groups: 1 to <6 months; to <12 years; 12 to <16 years;

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SPM 927 (lacosamide LCM)		S.

total 4 to <16 years; and \geq 16 years.

All summaries are descriptive; no statistical hypothesis testing is planned.

For the interim CSR based on a clinical cutoff date of 01 Nov 2016, the only analysis set applicable from the protocol is the Safety Set (SS). The SS consists of all enrolled subjects who took at least 1 dose of LCM in this long-term extension study. All safety analyses were performed on the SS.

Adverse events are tabulated by Medical Dictionary for Regulatory Affairs (MedDRA) system organ class (SOC) and MedDRA preferred term (PT); select tables are also presented by weight band based on subject weight at time of entry into EP0034: <30kg, ≥30 to <50kg, or ≥50 kg. In addition, all AE summaries are presented by 3-month time intervals. The number and percentage of subjects experiencing each event at least once are summarized.

Observed values of hematology, chemistry, endocrinology parameters, vital signs, and ECGs were summarized for each visit and the Last Visit. Change from Baseline for hematology, chemistry, and endocrinology parameters, vital signs, and ECGs were summarized for all post-Baseline visits and the Last Visit.

The number and percentage of subjects with markedly abnormal laboratory or vital sign values are summarized at each post-Baseline visit and Last Visit. Percentages are relative to the number of subjects with a value at each time point. The number and percentage of subjects with treatment-emergent ECG abnormalities are presented for each post-Baseline visit and Last Visit.

Summary and conclusions:

Subject disposition: As of the clinical cutoff date for this interim CSR, 284 subjects from SP0969 had been screened and 283 subjects had been enrolled in EP0034 at 96 sites. This includes 138 subjects aged 4 to <12 years, 103 subjects aged 12 to <16 years, and 42 subjects aged ≥ 16 years. A total of 232 subjects (82.0%) were ongoing as of the clinical cutoff date for this interim CSR and 9 subjects (3.2%) had completed the study. The majority of ongoing subjects (153 subjects [54.1%]) have completed <12 months. Of the ongoing subjects, a total of 79 subjects (27.9%) have completed ≥ 12 months, including 34 subjects (24.6%) aged 4 to <12 years, 28 subjects (14.8%) aged ≥ 4 years discontinued from the study, including 23 of 138 subjects (16.7%) aged 4 to <12 years, 14 of 103 subjects (13.6%) aged 12 to <16 years, and 5 of 42 subjects (11.9%) aged ≥ 16 years. Overall, the most common reason for discontinuation was lack of efficacy (14 subjects [4.9%]), followed by consent withdrawn (11 subjects [3.9%]), AE (9 subjects [3.2%]), and "other" (8 subjects [2.8%]).

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Efficacy results: Efficacy was n	not evaluated for this interim CS	SR.
of LCM in adults. Observations (eg, high incidence of infections identified based on the available	in EP0034 were as expected for and associated symptoms). No e data as of the clinical cutoff da	r the pediatric population new safety concerns were ite.
 A total of 1/0 subjects (60.1 study. Treatment-emergent A infestations (85 subjects [30 Gastrointestinal disorders (5 were vomiting (21 subjects [pharyngitis (19 subjects [6.7 – A similar incidence of T ≥16 years age groups (79 respectively) 	 %) experienced treatment-emer AEs were most common in the S .0%]), Nervous system disorder 5 subjects [19.4%]). The most c [7.4%], upper respiratory tract in ?%]). EAEs was observed in the 4 to -9 subjects [57,2%], 65 subjects [gent AEs (TEAEs) during the SOCs of Infections and s (60 subjects [21.2%]), and common TEAEs overall (by PT) nfection (20 subjects [7.1%]), and <12 years, 12 to <16 years, and [63.1%], and 26 subjects [61.9%],
 Treatment-emergent AE 45 subjects (61.6%) in th ≥50kg weight bands, res 	s were observed in 46 subjects (ne 4 to <16 years of age group in pectively.	(54.1%), 53 subjects (63.9%), and in the <30 kg, ≥ 30 kg to <50 kg, and
 The incidence of TEAEs through >12 months to ≤ across 3-month time inte (range: 7.7% to 19.1%) 	s was similar across 3 month tim ≤ 15 months (range: 30.7% to 39 ervals from >15 months to ≤ 18 r	the intervals from ≤ 3 months .6%), and then slightly lower months through ≥ 24 months
• The majority of subjects over (78 subjects [27.6%]) or model 22 severe TEAEs, half of which study medication (17 of 22 et 22 events). The incidence of 5.9%).	erall experienced TEAEs with a derate (81 subjects [28.6%]). El hich were serious, and the major events) and did not lead to disco f severe TEAEs was balanced ac	maximum intensity of mild even subjects (3.9%) experienced rity of which were not related to ntinuation from the study (20 of cross age groups (range: 2.4% to
 A total of 60 subjects (21.2% related to LCM (ie, drug-relation incidences across age groups TEAEs were vomiting, sommand 9 subjects [3.2%], respendent 	%) experienced TEAEs consider ated). These drug-related TEAE s (range: 18.1% and 25.2%). Th nolence, and dizziness (11 subjectively), and were observed at s	red by the investigator to be as were observed at similar e most common drug-related ects [3.9%], 10 subjects [3.5%], imilar incidences across age

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Name of active ingredient:	Page: Not applicable	allo	
SPM 927 (lacosamide, LCM)		51	

groups. The only serious drug-related TEAEs were nausea, vomiting, and dyspepsia (1 subject each).

- One death was reported prior to the clinical cutoff date (cause of death unknown) and one death was reported after the clinical cutoff date (status epilepticus and infection); neither was considered related to LCM by the investigator.
- Twenty-six subjects (9.2%) experienced a total of 45 serious TEAEs. The incidence of serious AEs (SAEs) was similar in the 12 to <16 and ≥16 years age groups (6 subjects [5.8%] and 3 subjects [7.1%]) and slightly higher in the 4 to <12 years age group (17 subjects [12.3%]). The only PTs reported by more than 1 subject were convulsion (4 subjects [1.4%]), and dengue fever, status epilepticus, and vomiting (2 subjects [0.7%] each). The only SAEs considered related to study medication were vomiting, nausea, and dyspepsia (1 subject each).
 - In subjects aged 4 to <16 years, the incidence of SAEs was 9.4% (8 subjects) in the <30kg weight band, 12.0% (10 subjects) in the ≥30kg to <50kg weight band, and 6.8% (5 subjects) in the ≥50kg weight band.
 - Nine subjects experienced SAEs during the first 3 months of EP0034; 10 subjects experienced SAEs >3 to ≤6 months, and 11 subjects experienced SAEs after the first 6 months of EP0034.
- A total of 9 subjects (3.2%) experienced 12 TEAEs leading to discontinuation. The only PT observed in more than 1 subject was convulsion (2 subjects [0.7%]).
 - Seven of the subjects (5.1%) experiencing TEAEs leading to discontinuation were in the 4 to <12 years age group, 1 subject (1.0%) was in the ≥12 to <16 years age group, and 1 subject (2.4%) was in the ≥16 years age group.
 - The incidence of TEAEs leading to discontinuation was low and similar for subjects 4 to <16 years of age across the 3 weight bands (4 subjects [4.7%] <30kg, 3 subjects [3.6%]
 ≥30kg to <50kg, and 1 subject [1.4%] ≥50kg).
 - All TEAEs leading to discontinuation occurred within 9 months of initiating LCM treatment in EP0034.
- Four other significant TEAEs (3 suicidal ideation and 1 suicide attempt) were observed during the study in a 10-year-old subject and a 17-year-old subject.

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• Two subjects reported a post reported a positive response medication by the investigat the study. In addition, 2 subj	itive response for suicidal ideation for suicide attempt; the events we for and resolved. The suicide attem jects reported a positive response	on the C-SSRS and I subject re not related to study pt led to discontinuation from for suicidal behavior.
• Few TEAEs of relevance to	the partial-onset seizure population	n were observed.
 Nineteen subjects experi convulsion, 2 events of e seizures with secondary petit mal epilepsy, 1 eve 	ubjects experienced seizure-related TEAEs during the study (10 events of , 2 events of epilepsy, 2 events of status epilepticus, 2 events of partial ith secondary generalization, 2 events of complex partial seizures, 1 event of pilepsy, 1 event of febrile convulsion, and 1 event of seizure cluster).	
 Two subjects experience 	subjects experienced a body weight change TEAE (weight increased).	
 No TEAEs related to me disorders were observed 	lated to memory impairment, amnesia, cognitive disorders, or psychotic e observed.	
• Twelve subjects experienced behavior, or endocrine funct emotional disorder of childh disorder, 1 event of gynecon hyperactivity, 1 event of hyp	d TEAEs related to pediatric grow tion during the study (8 events of a bood, 1 event of disturbance in atte nastia, 1 event of irritability, 1 even pothyroidism, and 1 event of psycl	th, neurodevelopment, aggression, 2 events of ention, 1 event of learning ent of psychomotor nomotor retardation).
• There were no pregnancies r	reported in this study.	
• No consistent or clinically re observed for hematology, cl	elevant mean changes from Baseli inical chemistry, or endocrinology	ne after LCM treatment were parameters.
• No clinically relevant chang	es from Baseline were observed for	or vital signs or 12-lead ECGs.
• The incidence of shifts in ne abnormal, clinically signific administration of LCM.	eurological examination findings fa ant at the Last Visit was low over	rom normal at Baseline to all and for each age group after
Conclusions: The interim result with the known safety profile of These results support the use of uncontrolled partial-onset seizu	ts from this ongoing long-term ext f LCM in adults; no new safety co f LCM in pediatric subjects aged 4 res.	ension study are consistent ncerns have been identified. years and above with

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