## CLINICAL STUDY REPORT SYNOPSIS: SP1047

<b>Name of company:</b> UCB Pharma	<b>Individual study table</b> <b>referring to part of the</b> <b>dossier:</b> Not applicable	(For National Authority Use Only)
Name of finished product: Lacosamide	<b>Volume</b> : Not applicable	variati
Name of active ingredient: SPM 927 (lacosamide, LCM)	Page: Not applicable	neioneo
	Open-Label Study to Investigate Formulation as Therapy in Child	
<b>Investigators:</b> This was a mult	icenter study.	- allo
5	nulticenter study conducted at 9	ates in the 5 sites enrolled
Publications (references): Nor	ne corat	
Last subject completed: 29 Ju Objective: The objective of thi (LCM) in children with epileps	s study was to evaluate the pharr	nacokinetics (PK) of lacosamide
Methodology: This was an ope		nting the PK of LCM in pediatric lepsy.
(ie LCM) for the treatment of e have been on a stable LCM dos 7 days prior to study entry with The Screening Period allowed t enrollment. It was acceptable for should not have extended over for screening to occur on Visit	Day -7 to Day 1): Subjects must pilepsy for at least 1 month prior e and dose regimen as prescribed no missed doses within 3 days p he investigator to evaluate subje or screening to be conducted on r a period longer than 8 days (Day 1/Day 1, the same day of the Tre	d by a physician for at least prior to PK sampling on Day 1. ets for suitability for study more than 1 day, although it -7 to Day 1). It was acceptable atment and Evaluation Period.
<u>Screening Period</u> (up to 8 days; (ie LCM) for the treatment of e have been on a stable LCM dos 7 days prior to study entry with The Screening Period allowed t enrollment. It was acceptable for should not have extended over for screening to occur on Visit <u>Treatment and Evaluation Periot</u> consisted of a 1 day visit (Visit for PK analysis. During Visit 1)	Day -7 to Day 1): Subjects must pilepsy for at least 1 month prior e and dose regimen as prescribed no missed doses within 3 days p he investigator to evaluate subje or screening to be conducted on r a period longer than 8 days (Day 1/Day 1, the same day of the Tre od (1 day; Visit 1/Day 1): The Tr 1/Day 1) during which blood sat /Day 1, subjects should have reco	to study entry. Subjects must d by a physician for at least rior to PK sampling on Day 1. cts for suitability for study nore than 1 day, although it -7 to Day 1). It was acceptable atment and Evaluation Period. eatment and Evaluation Period nples were to have been obtained eived a single dose of LCM at the

Synopsis Amendment 1	Lacosamide	SP1047	
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blood sample. For the plasma sa collected was 3mL (2 plasma sa 0.5mL of plasma in each sample of LCM from sparse samples for PK methods. Follow-up Period (7 to 10 days;	have been at least 1 hour between amples for PK analysis, the minim amples at each of 3 scheduled time e). Assessment of PK included ana or characterization of steady-state I ; Day 7 to Day 10): For subjects w follow-up assessment should have to 10 days after Visit 1/Day 1.	um total blood volume to be points, with a minimum of alyzing plasma concentrations PK of DCM using population ho completed the Treatment	
distribution values for SP847 C been prospectively powered to the planned sample size was approx Agency Paediatric Committee ( the time of completion of SP84 ≥1 month to <2 years age catego of age in SP1047 was not warra A total of 32 subjects were enroped	and analyzed): Using the observe ohort 1 (based on 5 subjects 5 to 1 target a 95% confidence interval (0 tric mean of clearance and volume ximately 32 subjects. With agreem PDCO), SP1047 was terminated u 7, 2 of the planned minimum of 8 ory and it was agreed that further e nted.	1 years of age), SP1047 has CI) within 60% and 140% of e of distribution. Therefore, the ent from European Medicines upon completion of SP847. At subjects were enrolled in the enrollment of subjects <2 years age groups: 10 subjects in the	

the  $\geq 12$  to  $\leq 17$  years age group.

**Diagnosis and main criteria for inclusion:** Subjects were male or female between 1 month to 17 years of age, inclusive, with a diagnosis of epilepsy who had been prescribed LCM for the treatment of epilepsy for at least 1 month prior to Screening and had not been prescribed or maintained on LCM for the purposes of participating in this study. The LCM dose was stable for at least 7 days, and intake of the prescribed total daily dose confirmed for at least 3 days prior to participation. Subjects were also on a stable antiepileptic drug (AED) dosage regimen that had been kept stable for a period of at least 1 week (7 days) prior to participation.

**Test product, dose(s) and mode of administration:** Clinical trial supply was not provided in this study; instead, subjects were to be dosed using VIMPAT oral tablets (50mg, 100mg, 150mg or 200mg) or oral solution (10mg/mL) which the subject brought to the clinic at the dose prescribed. The investigator or designee should have confirmed that the correct product was in the possession of the subject and was used for dosing. During Visit 1, subjects should have

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received a single dose of LCM	at the dose level prescribed by t	
<b>Duration of treatment:</b> The m 19 days. This consisted of a Scr Period (Visit 1/Day 1), and a sa Follow-up Period 7 to 10 days a	eening Period up to 8 days, a 1 fety follow-up assessment cond	
Reference therapy, dose(s) and	d mode of administration, bat	ch number(s): None
<b>Criteria for evaluation:</b> <b>Pharmacokinetics:</b> Pharmacok concentrations of LCM and its 1 characterization of steady-state	nain metabolite, SPM 12809, fr	om sparse samples for
-		us. by 1 using the following variables
• Incidence of adverse events	(AEs) reported spontaneously b dian), or observed by the invest	by the subject and/or caregiver
• Subject withdrawals due to	AEs x C	
• Changes in vital sign measu	rements (ie, blood pressure and	pulse rate)
• Changes in 12 lead electroc	ardiograms (ECGs)	
• Changes in neurological exa	amination findings	
		study
Efficacy: No efficacy paramete	rs were investigated in this PK	study.

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Lacosamide		il <sup>0</sup>	
Name of active ingredient:	Page: Not applicable	12HO	
SPM 927 (lacosamide, LCM)		5	

**Statistical methods:** Pharmacokinetic data were summarized using the PK Per-Protocol Set (PK-PPS).

Descriptive statistics (n, n $\geq$ limit of quantification [LOQ]), geometric mean, geometric coefficient of variation, arithmetic mean, standard deviation, median, minimum, and maximum) for the LCM and SPM 12809 concentrations were presented by time point. Summary statistics were only calculated if at least two-thirds of data were above the lower LOQ. Values <LOQ were set to LOQ/2 for the determination of all summary statistics.

Safety variables were summarized for the Safety Set (SS).

Adverse events were tabulated by Medical Dictionary for Regulatory Affairs (MedDRA) version 16.1 system organ class (SOC) and MedDRA preferred term (PT) overall and by stratification age group. The number and percentage of subjects experiencing each event at least once were summarized. All summaries were sorted alphabetically by SOC and by frequency of events within PTs, starting with the most frequent event. All AEs reported during study conduct were to be considered treatment-emergent.

A subject data listing of all laboratory parameters (hematology, clinical chemistry, and urinalysis) collected prior to dosing was presented.

Summary statistics of the actual values and change from baseline values for vital sign parameters (systolic blood pressure, diastolic blood pressure, and pulse rate) were presented by visit. Repeated or unscheduled vital sign assessments during the study were not presented in summaries.

For quantitative ECG measurements (heart rate, RR interval, PR interval, QRS duration, QT interval, and corrected QT intervals using Bazett's and Fridericia's correction methods), summary statistics of the actual and change from baseline values were presented by visit. Repeated or unscheduled ECG assessments during the study were not presented in summaries.

## Summary and conclusions:

**Subject disposition:** A total of 34 subjects were screened, 2 of whom were screen failures for reasons of ineligibility and lost to follow up (1 subject [2.9%] each). A total of 32 subjects were enrolled in the study in the following age groups: 10 subjects in the  $\geq 1$  month to <4 years age group, 13 subjects in the  $\geq 4$  to <12 years age group, and 9 subjects in the  $\geq 12$  to  $\leq 17$  years age group.

All 32 enrolled subjects completed the study.

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SPM 927 (lacosamide, LCM)		5 <sup>4</sup>

## **Pharmacokinetics results:**

• Plasma concentrations for LCM and SPM 12809 increased through 1 to 2 hours postdose. Population PK modeling of combined data from SP1047 and SP847 is reported separately (CL0177).

**Safety results:** The safety observations in SP1047 were consistent with the known safety profile of LCM in adults and no new safety concerns were identified.

- Two AEs were reported for 1 subject in the ≥1 month to <2 years stratification age group during the conduct of the study (flatulence and irritability); both AEs were nonserious and considered to be not related to study medication by the investigator. No other AEs were reported during the conduct of the study.
- No deaths were reported in this study.
- There were no AEs considered to be related to LCM by the investigator during study conduct.
- There were no AEs leading to discontinuations during study conduct.
- There were no serious adverse events (SAEs) during study conduct.
- There were no pregnancies during study conduct.
- There were no other significant AEs reported during study conduct.
- There was no evidence for any clinically significant effect of LCM treatment on vital signs, ECGs, physical examinations, or neurological examinations.

Efficacy results: There were no individual efficacy response data collected in this study.

**Conclusions:** Pharmacokinetic results from this study are consistent with the known PK profile of LCM. Population PK modeling of combined data from SP1047 and SP847 is reported separately (CL0177). No serious or drug related AEs were reported during the study.

Report date: 15 Sep 2017

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