

## **Clinical Study Summary**

CT Registry ID#: NCT00150774 Study No.: N166						
These results are supplied for informational purposes only. Prescribing decisions should be made based on the approved package insert.						
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Based on Clinical Study Report document reference code: RRCE04F1404						
Proprietary Drug Name Keppra <sup>®</sup>	INN Levetiracetam		Therapeutic area and indication(s)			
			Epilepsy			
Name of Sponsor/Company: UC	L CB					
Title of Study: A double-blind, m		ized. place	bo-controlled	d study to evaluate		
the efficacy and safety of levetirad						
3000 mg/day as adjunctive treatm						
suffering from idiopathic generaliz						
Investigator(s) (number only):		-				
Study Center(s) (number	53					
only):						
Length of Study:	Car 2001	Phase of		Phase III		
	Sep-2001 Dec-2004	Developr	nent:	(therapeutic		
Abstract:	Dec-2004			confirmatory)		
The study objectives were to asse	ass the officacy of	adiunctiva	treatment wi	th lovetiracetam		
(LEV) 3000 mg/day in reducing m						
adults (≤ 65 years of age) sufferir						
safety and tolerability of LEV in th						
maximum duration of 30 weeks: b						
period, 4 weeks; evaluation period						
(switch to open-label follow-up stu	udy or down-titratio	on includin	g a 2-week d	rug-free period). The		
primary efficacy endpoint was the						
number of myoclonic seizure day						
evaluation periods) as compared						
adverse events (AEs), laboratory						
examinations, and vital signs. The						
efficacy variable using logistic reg						
factors, and the baseline myoclonic seizure days per week as covariate. The analysis was based on the ITT population, i.e., all randomized subjects who took at least one dose of						
randomized study medication. An estimate and 95% confidence interval (CI) for the treatment						
odds ratio was presented.						
Publication Reference(s) based on the study:						
None						
Number of Patients:	PB	0		EV		
Planned, N:	58		50			
Enrolled, N:	60		62			
Completed, n (%):		(85.0)	1	3 (86.9)		
Number of Patients Withdrawn, n	· /	5.0)		(13.1)		
Withdrawn due to Adverse Events		.7)		(4.9)		
Withdrawn for Other Reasons, n (%): 8 (13.3) 5 (8.2)						



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Demography:	PBO (N=60)	LEV (N=61)
Gender (Females/Males):	38/22	39/22
Age (years), mean(SD):	26.84 (9.48)	25.01 (7.44)
Race, n (%):	Caucasian, 47 (78.3)	Caucasian, 46 (75.4)

## Safety Outcomes:

## - Summary of treatment emergent adverse events, deaths, other serious adverse events and certain other significant adverse events:

Overall, during the up-titration and evaluation periods, 66.7% of the subjects in the PBO group and 75.0% of the subjects in the LEV group experienced at least 1 treatment-emergent adverse event (TEAE). The most frequently reported TEAEs, with a higher incidence in the LEV group than in the PBO group, were vertigo, influenza, pharyngitis, neck pain, somnolence, and depression. Six treatment-emergent SAEs were reported in 5 subjects (1 in the PBO group and 4 in the LEV group). They were considered not related to the study drug and none of them led to study drug discontinuation. None of the changes in hematology or biochemistry laboratory parameters were considered clinically significant. No clinically relevant changes in vital signs or electrocardiograms were noted.

Treatment Emergent AEs (Treatment	PBO	LEV			
Period, ITT Population):	(N=60)	(N=60)			
Patients with at least one TEAE, n (%):	40 (66.7)	45 (75.0)			
Patients with TEAEs	n (%) [n considered drug-related by the				
(by Primary System Organ Class)	Investigator]				
Blood and Lymphatic System Disorders	1 (1.7) [1]	0			
Cardiac Disorders	0	1 (1.7) [0]			
Ear and Labyrinth Disorders	3 (5.0) [2]	3 (5.0) [2]			
Eye Disorders	1 (1.7) [0]	2 (3.3) [2]			
Gastrointestinal Disorders	10 (16.7) [2]	12 (20.0) [4]			
General Disorders and Administration Site Conditions	7 (11.7) [5]	3 (5.0) [3]			
Hepatobiliary Disorders	1 (1.7) [0]	2 (3.3) [0]			
Immune System Disorders	1 (1.7) [0]	1 (1.7) [0]			
Infections and Infestations	11 (18.3) [1]	16 (26.7) [3]			
Injury, Poisoning, and Procedural	1 (1.7) [0]	2 (3.3) [0]			
Complications					
Investigations	1 (1.7) [1]	0			
Metabolism and Nutrition Disorders	3 (5.0) [1]	4 (6.7) [1]			
Musculoskeletal and Connective Tissue Disorders	5 (8.3) [0]	5 (8.3) [0]			
Nervous System Disorders	21 (35.0) [8]	22 (36.7) [10]			
Psychiatric Disorders	11 (18.3) [5]	12 (20.0) [6]			
Renal and Urinary Disorders	1 (1.7) [0]	0			
Reproductive System and Breast Disorders	0	1 (1.7) [0]			
Respiratory, Thoracic, and Mediastinal	1 (1.7) [0]	5 (8.3) [2]			
Disorders					
Skin and Subcutaneous Tissue Disorders	3 (5.0) [0]	4 (6.7) [3]			
Vascular Disorders	1 (1.7) [0]	0			
Death, SAEs, and Other SAEs: (Entire Study, ITT Population)					
Death, n (%):	0	0			
Patients with SAEs, n (%):	1 (1.7) [0]	4 (6.7) [0]			



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Primary Outcome:						
The 50% responder rate in myoclonic seizure days per week was 35/60 (58.3%) for the subjects						
in the LEV group compared to 14/60 (23.3%) for the subjects in the PBO group. The odds to						
respond to treatment were 4.77 times higher on LEV than on PBO. This difference was						
statistically significant (p=0.0002).						
50% Responder Rate in Myoclonic Seizure	PBO (N=60)	LEV (N=60)				
Days per Week over the Treatment Period						
(ITT Population)	(11-00)	(14-00)				
Responders, n (%)	14 (23.3)	35 (58.3)				
Non-responders, n (%)	46 (76.7)	25 (41.7)				
Odds ratio (LEV vs PBO)	4.77					
95% CI	(2.12, 10.77)					
p-value	0.0002					