



Clinical Study Summary

DEV/CCM/03161.2007

CT Registry ID#: NCT00544388			
Study No.: A00379			
<i>These results are supplied for informational purposes only. Prescribing decisions should be made based on the approved package insert.</i>			
Based on Clinical Study Report document reference code: RRCE05A0403			
Proprietary Drug Name Xyzal® Tablets	INN Levocetirizine dihydrochloride	Therapeutic area and indication(s) Seasonal allergic rhinitis in ragweed-sensitive subjects	
Name of Sponsor/Company: UCB Pharma SA			
Title of Study: Double-blind, double dummy, parallel groups, randomized, placebo-controlled exploratory clinical trial to compare the efficacy of a single dose of levocetirizine 5 mg tablets and cetirizine 10 mg tablets in reducing symptoms of seasonal allergic rhinitis in ragweed sensitive subjects exposed to pollen challenge in an environmental exposure unit (EEU)			
Investigator(s) (number only): 1			
Study Center(s) (number only): 1			
Length of Study: Date first patient enrolled: 20-Apr-2004 Date last patient completed: 11-Jul-2004		Phase of Development: Phase IIIb (therapeutic exploratory)	
Abstract: The primary objective of this study was to compare the efficacy of levocetirizine 5 mg (LCTZ) versus cetirizine 10 mg (CTZ) as measured by the mean change from baseline in Major Symptoms Complex (MSC) score over Period 2. The study consisted of 3 phases: Phase I (screening visit), Phase II (priming exposure) and Phase III (double-blind treatment and pollen challenge). Phase III was divided into 2 study periods: Period 1 on day 1 (5 hours after the drug intake; 11:00 to 16:00) and Period 2 on day 2 (from 21 hours after the drug intake; 8:00 to 16:00). Study medication was taken at 11:00 am on day 1 of Phase III. Subjects were male or female aged > 16 years with seasonal allergic rhinitis requiring pharmacologic therapy for the last 2 consecutive years (i.e., the last 2 ragweed pollen seasons), a documented seasonal allergy to ragweed pollen (positive skin prick test performed at screening or within 12 months prior to screening), and a Total Symptom Complex (TSC) score of ≥ 18 points over the combined 3 half-hourly post-pollen evaluations during priming exposure and over the 3 half-hourly pre-treatment evaluations during the pollen challenge. Subjects were excluded if they had a nasal obstruction > 50%, acute sinusitis within 30 days prior to study Phase II, impaired function or disease including asthma requiring > 3 uses per week of short-acting β ₂ -agonist, a history of malignancy or intolerance to antihistamines, or were receiving immunotherapy. Subjects were given either LCTZ, CTZ, placebo (PBO) matching LCTZ, or PBO matching CTZ as a single oral dose on Day 1 of study phase III. The primary efficacy variable was the mean change from baseline of the MSC score for Period 2 (the 16 half-hourly post-dose measurements on Day 2 from 08:30 to 16:00). The primary efficacy analysis compared LCTZ and CTZ using analysis of covariance (ANCOVA) including treatment as a factor and the baseline score as covariate. The difference between the treatment groups was estimated by the difference in least square (LS) means together with their 2-sided 95% confidence intervals (CI). Safety assessments included adverse events (AEs), vital signs and physical examinations.			
Number of Subjects:	PBO	CTZ	LCTZ
Planned, N:	90	225	225
Enrolled, N:	95	235	240
Completed, n (%):	94 (98.9)	233 (99.1)	236 (98.3)
Number of Subjects Withdrawn, n (%):	1 (1.1)	2 (0.9)	4 (1.7)
Withdrawn due to Adverse Events, n (%):	1 (1.1)	2 (0.9)	2 (0.8)
Withdrawn for Other Reasons, n (%):	0	0	2 (0.8)



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Demography:	PBO (N=95)	CTZ (N=235)	LCTZ (N=240)
Gender (Females/Males):	57/38	138/97	142/98
Age (years), mean (SD):	31.22 (11.04)	33.65 (12.82)	32.33 (11.09)
Race, n (%):			
Caucasian	87 (91.6)	221 (94.0)	235 (97.9)
African	3 (3.2)	5 (2.1)	1 (0.4)
Asian/Pacific	4 (4.2)	7 (3.0)	3 (1.3)
Other/mixed	1 (1.1)	2 (0.9)	1 (0.4)
Safety Outcomes:			
- Summary of treatment-emergent adverse events, deaths, other serious adverse events and certain other significant adverse events:			
<p>Overall, 35 subjects (14.6%) in the LCTZ group, 43 subjects (18.3%) in the CTZ group, and 15 subjects (15.8%) in the PBO group experienced ≥ 1 treatment emergent (TE) AE. The most frequently reported TEAEs were nervous system disorders (6.7% of LCTZ subjects, 8.9% of CTZ subjects, and 7.4% of PBO subjects), general disorders and administration site conditions (2.1% of LCTZ subjects, 2.6% of CTZ subjects, and 3.2% of PBO subjects), and gastrointestinal disorders (1.3% of LCTZ subjects, 3.4% of CTZ subjects, and 2.1% of PBO subjects). Two subjects (0.8%) in the LCTZ group discontinued the study because of AEs, as did 2 subjects (0.9%) in the CTZ group and 1 subject (1.1%) in the PBO group. There were no deaths or serious (S)AEs during the study.</p> <p>Mean heart rate and mean blood pressure were similar at screening and at the final evaluation, as well as across the 3 treatment groups, and did not show any clinically relevant differences.</p>			
Treatment-Emergent AEs:			
	PBO (N=95)	CTZ (N=235)	LCTZ (N=240)
Subjects with at least 1 TEAE, n (%):	15 (15.8)	43 (18.3)	35 (14.6)
<i>Subjects with TEAEs (by MedDRA Primary System Organ Class)</i>	<i>n (%) [n considered drug-related by the Investigator]</i>		
Ear and labyrinth disorders	1 (1.1) [0]	0	0
Eye disorders	3 (3.2) [0]	2 (0.9) [0]	2 (0.8) [0]
Gastrointestinal disorders	2 (2.1) [0]	8 (3.4) [4]	3 (1.3) [1]
General disorders and administration site conditions	3 (3.2) [2]	6 (2.6) [3]	5 (2.1) [3]
Immune system disorders	0	1 (0.4) [0]	0
Infections and infestations	2 (2.1) [0]	3 (1.3) [1]	0
Injury, poisoning and procedural complications	0	1 (0.4) [0]	1 (0.4) [0]
Investigations	1 (1.1) [0]	4 (1.7) [2]	0
Musculoskeletal and connective tissue disorders	0	2 (0.9) [0]	4 (1.7) [0]
Nervous system disorders	7 (7.4) [1]	21 (8.9) [9]	16 (6.7) [1]
Psychiatric disorders	0	1 (0.4) [0]	0
Reproductive system and breast disorders	1 (1.1) [0]	1 (0.4) [0]	1 (0.4) [0]
Respiratory, thoracic and mediastinal disorders	2 (2.1) [0]	3 (1.3) [1]	4 (1.7) [0]
Skin and subcutaneous tissue disorders	1 (1.1) [1]	0	2 (0.8) [1]
Vascular disorders	0	1 (0.4)	0
Primary Outcomes:			
<p>The mean changes from baseline in MSC scores for LCTZ (-7.64) and CTZ (-7.30) were significantly greater than those for PBO (-2.42). The difference between LCTZ and PBO (-5.22), and between CTZ and PBO (-4.88) were statistically significant ($p < 0.001$). The difference between LCTZ and CTZ was -0.35 (95% CI: -1.31; 0.62), and was not statistically significant.</p>			
Publication Reference(s) based on the study: none			
Date of report: 20-Jul-2007			