CONFIDENTIAL

FINAL REPORT

Final report code: M/EBSFD/05

Name of test drug: Ebastine Indication studied: n/a Study phase: I (IV)

Title: "A DOUBLE BLIND, RANDOMIZED, UNICENTRIC, CROSSOVER AND PLACEBO-CONTROLLED CLINICAL TRIAL TO EVALUATE THE INHIBITORY EFFECT OF EBASTINE 20 mg (ORAL LYOPHILISATE) AND DESLORATADINE 5 mg ON THE HISTAMINE INDUCED SKIN REACTION IN HEALTHY VOLUNTEERS".

(Protocol Code: M/EBSFD/05)

Date of study beginning (first treatment administration): April 25, 2005 Date of study end (last treatment administration): June 8, 2005 Date of report: 22 December 2005

Company / Sponsor:

ALMIRALL PRODESFARMA, S.A. Pont Reixat 5 08960 Sant Just Desvern BARCELONA Tel: 34 93 291 3000 Fax: 34 93 291 3533

Investigators:

Research Institut. Drug Research Area Clinical Pharmacology Dpt. Hospital de la Santa Creu i Sant Pau Avda. Sant Antoni M^a Claret 167. 08025 BARCELONA



Clinical Trial Manager:



The study was performed in accordance with Good Clinical Practices (GCP) including archiving of essential documents

2.- SYNOPSIS

Name of Sponsor / Company:	Individual Study Table	(For use by National			
Almirall Prodesfarma, S.A.	Referring to Part	Authorities only)			
Name of Finished Product:	of the Dossier				
Ebastel® Forte Flas					
	Volume: N/A				
Name of Active Ingredients:					
Ebastine	Page: N/A				
Title of Study:					
A double-blind, randomized, unicentric,	cross-over and placebo-cont	rolled clinical trial to evaluate the			
inhibitory effect of ebastine 20 mg (oral	lyophilisate) and desloratadin	ne 5 mg on histamine induced skin			
reaction in healthy volunteers.					
Principal Investigators:					
Study centre(s):					
Research Institute. Drug Research Area.	Clinical Pharmacology Dept. He	ospital de la Santa Creu i Sant Pau.			
08025 Barcelona (Spain).					
Publication (reference):					
N/A					
Study period (years):	Phase of development:				
April-June2005	I (IV)				
Aims:					
The main aim of the trial was to compare the pharmacodynamic effect of Ebastine 20 mg (oral lyphilisate),					
	Desloratadine 5 mg and Placebo administered once daily for 5 days. The main variable studied was the				
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Name of Sponsor / Company:	Individual Study Table	(For use by National		
Almirall Prodesfarma, S.A.	Referring to Part	Authorities only)		
Name of Finished Product:	of the Dossier			
Ebastel® Forte Flas				
	Volume: N/A			
Name of Active Ingredients:				
Ebastine	Page: N/A			
Diagnosis and main criteria for inclu	•			
Healthy Caucasian volunteers of both		40 years not presenting positive		
dermatographism.		to yours not procenting positive		
Test product, dose and administrati	on route batch number a	nd expiry date:		
Oral lyophilisate form of ebastine 20 mg, b				
Duration of treatment:				
5 days in each of the 3 treatments.				
Reference product, dose and admin	istration route batch num	ber and expiry date:		
Oral capsules of Desloratadine 5 mg (bat				
019F0033) and oral lyophilisate form of Et				
Desloratadine 5 mg and Desloratadine Pl				
blind condition.	procented in gold			
Evaluation criteria:				
Main variable:				
Percentage of reduction from baseline v	alue of the wheal area at +24 ho	urs after the 5 th dose administered.		
Secondary variables:				
Percentage of reduction from baseline v				
• Percentage of reduction from baseline	value of the wheal area at +20'	, +40', +1h, +1h 20', +1h 40' and +2h		
 after the 1st dose administered. Change from baseline of the heat, itching and pain scores obtained at +20', +40', +1h, +1h 20', +1h 40' and 				
+2h after the 1 st dose administered by r				
 Scores obtained in the acceptability que 				
preference).		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Safety:				
The study protocol included vital signs, ph	ysical examination, standard la	aboratory tests (biochemistry,		
haematology, urinalysis), ECG recordings	and monitoring of possible adv	verse events.		
Statistical methods:				
The statistical analyses were performed by		ng the SAS v8 statistical program. The		
statistically significant level was established	at 5% (α=0.05).			
Activity variables were evaluated following		afety analysis population consisted of		
those volunteers who received at least one of The analyses of percentage reduction from		4 hours after the 5 th dose and at +24h		
after the 1 st dose, consist on an analysis o				
wheal area as a covariant and including t				
sequence. The treatment effects, the inter-tre		rd errors and 95% confidence intervals		
were estimated by means of Least Squares				
The "onset of action" (objective and subjective variables) was analysed by means of an ANCOVA model with because a subject within acquire the following factors, acquired within acquired to the following factors, acquired within acquired to the following factors, acquired to the following factors acquired to the factors				
baseline value of wheal area as a covariant and including the following factors: sequence, subject within sequence period, time, treatment and treatment by time interaction. The treatment effects on each evaluation time, the				
differences between treatments on each eva				
estimated by means of Least Squares (LS) n	neans.			
	الماصوب المتعر مطلبون امصراحه مالما	lisate acceptability questionnaire (taste		
Descriptive analyses were applied to the var	lables obtained in the oral lyophi			
acceptability, convenience, preference).				
acceptability, convenience, preference). The tolerability variables were also analised		results evaluation was made in terms		
acceptability, convenience, preference). The tolerability variables were also analised of "clinically relevant changes".		e results evaluation was made in terms		
acceptability, convenience, preference). The tolerability variables were also analised of "clinically relevant changes". Pharmacodynamic Results:		e results evaluation was made in terms		
acceptability, convenience, preference). The tolerability variables were also analised of "clinically relevant changes". Pharmacodynamic Results: <u>MAIN VARIABLE</u>	descriptively. In either case, the	e results evaluation was made in terms		
acceptability, convenience, preference). The tolerability variables were also analised of "clinically relevant changes". Pharmacodynamic Results: <u>MAIN VARIABLE</u> <u>Wheal area percentage reduction at +24h afters</u>	descriptively. In either case, the ter the 5 th dose administered:			
acceptability, convenience, preference). The tolerability variables were also analised of "clinically relevant changes". Pharmacodynamic Results: <u>MAIN VARIABLE</u>	descriptively. In either case, the ter the 5 th dose administered: he five dose administered) Ebas	stine 20 mg induced a percentage of		
acceptability, convenience, preference). The tolerability variables were also analised of "clinically relevant changes". Pharmacodynamic Results: <u>MAIN VARIABLE</u> <u>Wheal area percentage reduction at +24h after</u> After 5 days of treatment (at +24h after the reduction from baseline of the wheal area Desloratadine 5 mg (LS mean = 29.03; p	descriptively. In either case, the ter the 5 th dose administered: he five dose administered) Ebas a significantly greater than the < 0.0001) and Placebo (LS me	stine 20 mg induced a percentage of percentage of reduction induced by an = 43.66; p < 0.0001). Statistically		
acceptability, convenience, preference). The tolerability variables were also analised of "clinically relevant changes". Pharmacodynamic Results: <u>MAIN VARIABLE</u> <u>Wheal area percentage reduction at +24h after After 5 days of treatment (at +24h after the reduction from baseline of the wheal area</u>	descriptively. In either case, the ter the 5 th dose administered: he five dose administered) Ebas a significantly greater than the < 0.0001) and Placebo (LS me	stine 20 mg induced a percentage of percentage of reduction induced by an = 43.66; p < 0.0001). Statistically		

Name of Sponsor / Company: Almirall Prodesfarma, S.A.	Individual Study Table Referring to Part	(For use by National Authorities only)
Name of Finished Product:	of the Dossier	
Ebastel® Forte Flas		
	Volume: N/A	
Name of Active Ingredients:		
Ebastine	Page: N/A	

SECONDARY VARIABLES

Wheal area percentage reduction at +24h after the 1st dose administered:

At +24 hours after the first dose administered, Ebastine 20 mg induced a percentage of reduction from baseline of the wheal area significantly greater than the percentage of reduction induced by Desloratadine 5 mg (LS mean = 37.02; p < 0.0001) and Placebo (LS mean = 36.97; p < 0.0001). No statistically significant differences were found between Desloratadine 5 mg and Placebo.

"Onset of action":

Although Ebastine 20 mg showed the largest skin reactivity inhibition over 2 hours after the 1st dose administered, no statistically significant differences were found. No significant differences were also found for the subjective assessment of the itching, heat and pain perception after histamine inoculation.

Oral lyophilisate acceptability:

Almost all the subjects were quite or very satisfied with the initial and final taste of the new oral lyophilisate formulation (86% and 77% of the subjects, respectively). The 91.5% of the subjects considered their convenience as "very or quite convenient" and the 80 % of the subjects reported their preference for this new formulation.

Safety Results:

No Serious Adverse Events ot other Expeditedly Reportable Events as defined by protocol were observed. Nine volunteers (25%) reported a total of 14 AE. Four were of mild intensity and 10 of moderate intensity. The causal relationship with the study drugs was considered "unlikely" in 6 cases and "possible" in the remaining 8 cases. Five occurred during the period of treatment with Ebastine 20 mg (intermittent somnolence, pharyngolaringeal pain, pyrexia, back pain and oral pain), 5 occurred during the period of treatment with Desloratadine 5 mg (asthenia (2), dry mouth, somnolence and back pain) and 4 occurred during the treatment with placebo (diarrhoea (2), drowsiness and headache).

No clinically significant changes were found regarding vital signs, physical examination, ECG and laboratory parameters.

Conclusions:

Ebastine 20 mg showed a significant superior antihistamine activity compared to those obtained with Desloratadine 5 mg at +24h after the 5th dose and at +24h after the 1st dose administered, also reaching statistical significance compared to Placebo. In contrast, the percentage of skin reactivity inhibition obtained with Desloratadine 5 mg was of lower magnitude than Ebastine 20 mg and only reached statistical significance in comparison to Placebo at +24 hours after the 5th dose administered.

No significant differences between study drugs were found in the "onset of action" evaluations (neither objective nor subjective).

The oral lyophilisate form acceptability was very good.

The drugs evaluated were safe and well tolerated.

Date of report: 22 December 2005