

Integrated Clinical Trial Report

A phase III trial evaluating the tolerability of Grazax treatment in combination with antihistamine in subjects with seasonal grass pollen induced rhinoconjunctivitis

Investigational Medicinal Products: Grazax + Aeries (desloratadine) 2.5 mg Grazax + Aeries (placebo)

Clinical trial ID: GT-19

EudraCT No. 2008-003593-18

Indication: Seasonal grass pollen induced rhinoconjunctivitis

Development Phase: III

First subject first visit: 15 September 2008

Last subject last visit: 8 January 2009

Investigators: Signatory Investigator: Dr. [REDACTED], Co-Investigators: [REDACTED]
[REDACTED], [REDACTED], [REDACTED] and [REDACTED]

Trial centre: [REDACTED] Germany

Sponsor: Global Clinical Development
ALK-Abelló A/S
DK-2970 Hørsholm, Denmark
Phone: +45 45747576
Fax: + 45 45748690

Medical Writer: [REDACTED], MSc. Pharm, ALK-Abelló A/S

Report No. and date: Final, 24 November 2009

This trial was conducted in compliance with the principles of ICH Good Clinical Practice.

Synopsis – Trial GT-19

Title of Trial	A phase III trial evaluating the tolerability of Grazax treatment in combination with antihistamine in subjects with seasonal grass pollen induced rhinoconjunctivitis																																		
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Publication	None																																		
Trial Period	First subject first visit – 15 September 2008 Last subject last visit – 8 January 2009																																		
Objectives	To evaluate whether intake of antihistamine in connection with Grazax treatment results in a reduction in number of subjects reporting treatment related adverse events the first day of Grazax exposure																																		
Methodology	A randomised, double-blinded, cross-over, single-centre trial. The trial was initiated and completed after the grass pollen season 2008. At screening, all subjects were administered Grazax. Only subjects that reported treatment related allergic adverse events (local reactions in mouth and throat) after intake of Grazax at screening visit were eligible for the trial. Eligible subjects were randomly allocated to one of two treatment procedures (1:1). Both groups received Grazax treatment in combination with antihistamine (AH) and placebo AH on 2 single days separated by approximately two weeks to ensure wash out of AH.																																		
Number of Subjects Planned and Analysed	<p>Approximately 50 subjects were planned for enrolment. 79 subjects were screened and 46 subjects were randomised for the trial.</p> <p>The subject disposition is tabulated below.</p> <table border="1"> <thead> <tr> <th></th> <th>N</th> <th>All (%)</th> </tr> </thead> <tbody> <tr> <td>Subjects screened</td> <td>79</td> <td></td> </tr> <tr> <td>Screening failures</td> <td>31</td> <td></td> </tr> <tr> <td>Full analysis set (FAS)</td> <td>46</td> <td>(100%)</td> </tr> <tr> <td>Per protocol analysis set (PP)</td> <td>46</td> <td>(100%)</td> </tr> <tr> <td>Safety analysis set</td> <td>79</td> <td></td> </tr> <tr> <td>Subjects withdrawn*)</td> <td>2</td> <td></td> </tr> <tr> <td>Reason for withdrawal</td> <td></td> <td></td> </tr> <tr> <td> Withdrawal of consent</td> <td>1</td> <td>(2%)</td> </tr> <tr> <td> Lost to follow-up</td> <td>1</td> <td>(2%)</td> </tr> <tr> <td>Subject completed</td> <td>46</td> <td>(100%)</td> </tr> </tbody> </table> <p>N = Number of subjects % = Percent subject of FAS *) The 2 subjects were screened but were withdrawn before randomisation (visit 2)</p>			N	All (%)	Subjects screened	79		Screening failures	31		Full analysis set (FAS)	46	(100%)	Per protocol analysis set (PP)	46	(100%)	Safety analysis set	79		Subjects withdrawn*)	2		Reason for withdrawal			Withdrawal of consent	1	(2%)	Lost to follow-up	1	(2%)	Subject completed	46	(100%)
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Diagnosis and Main Inclusion Criteria

Male and female subjects, 18-65 years of age with a clinical history of grass pollen induced allergic rhinoconjunctivitis of two years or more requiring treatment during the grass pollen season, reporting of treatment related allergic adverse events (local reactions in mouth and throat) after intake of Grazax at screening (visit 1) and positive skin prick test (SPT) response (wheal diameter ≥ 3 mm larger than the negative control with a flare) to *Phleum pratense*.

Test Product, Dose and Mode of Administration, Batch Numbers

Grazax, *Phleum pratense*, 75,000 SQ-T (2,800 BAU); administered sublingually. Batch no: 625605
Aerius, desloratadine, 2.5 mg; disintegrating tablet. Batch no: 370428A05

Reference Therapy, Dose and Mode of Administration, Batch Numbers

Placebo Aerius, placebo desloratadine; disintegrating tablet. Batch no: 370375C04

Duration of Treatment

All subjects were exposed to Grazax at screening. In addition, all randomised subjects were exposed to either Grazax + AH at visit 2 and Grazax + placebo AH at visit 3 or Grazax + placebo AH at visit 2 and Grazax + AH at visit 3

Criteria for Evaluation – Efficacy

The primary endpoint was a binary endpoint; experience of a local allergic reaction or not, during treatment with Grazax in combination with AH compared to treatment with Grazax in combination with placebo AH.

Local allergic reactions were defined as adverse events judged by the investigator to be possibly/probably related to Grazax treatment and which occurred in the mouth and/or throat. Reactions in the mouth also included reactions around the mouth i.e. lips. Reactions in the throat included reactions in pharynx and larynx.

Criteria for Evaluation – Safety

Adverse events (AEs), vital signs, oral examination, physical examination and FEV₁

Statistical Methods

The following analysis sets were used:

Full Analysis Set (FAS): all randomised subjects.

Safety Analysis Set: all screened subjects.

Per Protocol Analysis Set (PP): all randomised subjects that received both treatments (i.e. Grazax + AH and Grazax + placebo AH) and did not take any prohibited medication prior to screening and for the entire trial period.

The primary endpoint was analysed using a logistic regression analysis.

The rationale for this analysis was: The probability of a 50-50 split between local allergic reactions occurring with treatment Grazax + AH and Grazax + placebo AH under the null hypothesis is equivalent to the odds ratio for local allergic reactions occurring with treatment Grazax + AH to the treatment Grazax + placebo AH being 1.0. Because logistic regression analysis models the natural logarithm of the odds, testing whether there is a 50-50 split between local reactions occurring with treatment Grazax + AH and treatment Grazax + placebo AH is comparable to testing whether the intercept term is null in a logistic regression analysis.

To account for the possible period effect in the 2x2 crossover trial, a term for period was included in the logistic regression analysis.

Demography of Trial Population

Baseline characteristics for all subjects in the FAS analysis set are shown below.

	All (N=46)	
Full analysis set (FAS)	46	
Sex		
Male, N (%)	23	(50%)
Female, N (%)	23	(50%)
Ethnic origin		
Caucasian, N (%)	44	(96%)
African, N (%)	1	(2%)
Hispanic, N (%)	1	(2%)
Smoking		
Non-smoker, N (%)	36	(78%)
Smoker, N (%)	10	(22%)
History of asthma/allergic asthma		
Yes, N (%)	3	(7%)
No, N (%)	43	(93%)
Age		
N	46	
Mean (SD)	34 (10.6)	
Median	30	
P25% - P75%	26 - 43	
Min - Max	21 - 65	
Years with grass pollen induced rhinoconjunctivitis		
N	46	
Mean (SD)	18.2 (11.4)	
Median	15.5	
P25% - P75%	10.0 - 25.0	
Min - Max	0.0 - 44.0	

N= Number of subjects

SD= Standard deviation

%= Percent subjects of FAS

Efficacy Results

In this trial, intake of antihistamine (Aerius 2.5 mg melting tablet) in connection with Grazax treatment had no statistically significant influence on the number of subjects reporting local allergic reactions.

Safety Results

Intake of antihistamine (Aerius 2.5 mg melting tablet) in connection with Grazax treatment had no influence on the frequency, type, severity, duration or onset of adverse events. The treatment was well-tolerated and all adverse events were non-serious and mild in severity. All subjects recovered from the events.

Conclusions

In this trial, intake of antihistamine (Aerius 2.5 mg melting tablet) in connection with Grazax treatment had no statistically significant influence on the number of subjects reporting local allergic reactions.

The frequency, type, severity, duration and onset of adverse events were not influenced by the intake of antihistamine in connection with Grazax treatment. The treatment was well-tolerated and all adverse events were non-serious and mild in severity. All subjects recovered from the events.

Date of the Report

Final, 24 November 2009

This trial was conducted in compliance with the principles of ICH Good Clinical Practice.