



a Novartis company

Sponsor

Alcon Research, Ltd.

Generic Drug Name

Anecortave Acetate (AA) 15 mg or 30 mg

Trial Indication(s)

Prevention of the progression of non-exudative to exudative age-related macular degeneration (AMD)

Protocol Number

C-02-60

Protocol Title

An Evaluation of Efficacy and Safety of Posterior Juxtapapillary Administrations of Anecortave Acetate for Depot Suspension (15 mg or 30 mg) versus Sham Administration in Patients (Enrolled in Study "A" or Study "B") at Risk for Developing Sight-Threatening Choroidal Neovascularization (CNV) Due to Exudative Age-Related Macular Degeneration (AMD)

Clinical Trial Phase

Phase 3

Study Start/End Dates

01Mar 2004 to 13 Jan 2009

Reason for Termination

Product development was terminated for this use. All active patients were scheduled for a final visit (to include an assessment of safety, visual acuity, and CNV status), 6 months following the patient's last injection. All active patients had completed study visits through at least Month 24 prior to study termination.

Study Design/Methodology

This was a multi-center, double-masked, parallel group, randomized, sham injection- and vehicle-controlled trial.

Centers

Subjects were recruited from 116 investigational sites located in the US (75), Brazil (5), France (4), Germany (4), UK (4), Australia (3), Canada (3), Italy (3), Sweden (3), Netherlands (2), Spain (2), Austria (1), Belgium (1), Denmark (1), Hungary (1), Northern Ireland (1), Poland (1), Portugal (1) and Switzerland (1).

Objectives

The primary objective was to demonstrate that Anecortave Acetate for Depot Suspension (15 mg or 30 mg) is safe and effective in arresting the progression of non-exudative (dry) AMD in patients who are at-risk for progressing to exudative (wet) AMD.

Test Product, Dose, and Mode of Administration

Test Product: Anecortave Acetate, 15 mg or 30 mg

Dose: One 0.5 mL injection of 30 mg/mL Anecortave Acetate Sterile Suspension (AA 15 mg) or one 0.5 mL injection of 60 mg/mL Anecortave Acetate Sterile Suspension (AA 30 mg)

Mode of Administration: One injection into a posterior juxtascleral depot (PJD) at 6-month intervals

Reference Product: Anecortave Acetate Vehicle (sham AA vehicle)

Dose: One 0.5 mL sham injection of Anecortave Acetate Vehicle

Mode of Administration: One sham injection at 6-month intervals (syringe containing AA vehicle was not inserted into the eye)

Statistical Methods

The primary statistical objective was to describe the incidence of ST-CNV in patients treated with AA 15 mg or AA 30 mg by PJD and in patients receiving sham injections of AA vehicle.

- Safety: included all randomized patients who received study drug
- ITT: included patients who received study drug and had at least 1 on-therapy visit

Study Population: Key Inclusion/Exclusion Criteria

Inclusion criteria:

- Presents with exudative (wet) AMD in 1 eye (non-study eye) and non-exudative (dry) AMD in the other eye (study eye)
- Meets protocol-specified criteria for qualification and contraception
- Voluntarily consents to participate and provides written informed consent prior to any protocol-specific procedures

Exclusion criteria:

- Uses medications outside protocol-specified parameters
- Has signs, symptoms or history of any condition that, per protocol or in the opinion of the investigator, might compromise:
 1. the safety or well-being of the participant or study staff
 2. the safety or well-being of the participant's offspring (such as through or breast-feeding)
 3. the analysis of results

Participant Flow Table

With Reasons for Patient Discontinuation Prior to Month 24 (Intent-to-Treat Data)

	Total		AA 15 mg		AA 30 mg		Sham	
	N	%	N	%	N	%	N	%
Started	2546	100.0	845	100.0	849	100.0	852	100.0
Completed	1937	76.1	628	74.3	642	75.6	667	78.3
Discontinued	609	23.9	217	25.7	207	24.4	185	21.7
<i>Reasons for discontinuation</i>								
Adverse Event	136	5.3	48	5.7	46	5.4	42	4.9
Lost to Follow-Up	19	0.7	6	0.7	7	0.8	6	0.7
Decision Unrelated to an Adverse Event	152	6.0	51	6.0	55	6.5	46	5.4
Noncompliance	13	0.5	4	0.5	5	0.6	4	0.5
Development of ST-CNV	234	9.2	89	10.5	75	8.8	70	8.2
Other: Not specified	55	2.2	19	2.2	19	2.2	17	2.0

Baseline Characteristics

Baseline Patient Characteristics (Intent-to-Treat Data)

	Total		AA 15 mg		AA 30 mg		Sham	
	N	%	N	%	N	%	N	%
Total	2546	100.0	845	100.0	849	100.0	852	100.0
Age								
Adults (50 - < 65 years)	222	8.7	78	9.2	74	8.7	70	8.2
Elderly (\geq 65 years)	2324	91.3	767	90.8	775	91.3	782	91.8
Sex								
Male	1091	42.9	392	46.4	352	41.5	347	40.7
Female	1455	57.1	453	53.6	497	58.5	505	59.3
Geography								
US/Canada	1769	69.5	590	69.8	585	68.9	594	69.7
International	777	30.5	255	30.2	264	31.1	258	30.3

Summary of Efficacy

Primary Outcome Measure

Proportion of Patients with CNV (Intent-to-Treat Data)

	AA 15 mg				AA 30 mg				Sham AA vehicle			
	CNV		No CNV		CNV		No CNV		CNV		No CNV	
	N	%	N	%	N	%	N	%	N	%	N	%

Month 6	35	4.2	795	95.8	28	3.4	798	96.6	37	4.4	797	95.6
Month 12	84	10.7	703	89.3	74	9.5	706	90.5	84	10.5	716	89.5
Month 18	121	15.9	639	84.1	101	13.5	645	86.5	124	16.1	648	83.9
Month 24	168	23.0	564	77.0	153	21.3	567	78.8	162	21.7	585	78.3
Month 30	201	28.4	506	71.6	177	25.4	521	74.6	197	26.9	535	73.1
Month 36	233	34.9	434	65.1	203	31.0	451	69.0	236	33.6	467	66.4
Month 42	259	45.8	306	54.2	221	41.1	317	58.9	257	43.1	339	56.9
Month 48	272	57.7	199	42.3	226	52.0	209	48.0	276	56.9	209	43.1

AA = Anecortave Acetate

Secondary Outcome Measure

Proportion of Patients who Maintained Vision (< 15-Letter Loss) (Intent-to-Treat Data)

	AA 15 mg				AA 30 mg				Sham AA vehicle			
	< 15-Letter Loss		≥ 15-Letter Loss		< 15-Letter Loss		≥ 15-Letter Loss		< 15-Letter Loss		≥ 15-Letter Loss	
	N	%	N	%	N	%	N	%	N	%	N	%
Month 6	810	98.7	11	1.3	803	97.2	23	2.8	816	97.7	19	2.3
Month 12	789	96.0	33	4.0	784	94.8	43	5.2	801	95.8	35	4.2
Month 18	771	93.8	51	6.2	772	93.3	55	6.7	786	94.0	50	6.0
Month 24	748	91.0	74	9.0	759	91.8	68	8.2	763	91.3	73	8.7
Month 30	732	89.1	90	10.9	744	90.0	83	10.0	752	90.0	84	10.0
Month 36	714	86.9	108	13.1	729	88.1	98	11.9	734	87.8	102	12.2
Month 42	698	84.9	124	15.1	724	87.5	103	12.5	719	86.0	117	14.0
Month 48	689	83.8	133	16.2	712	86.1	115	13.9	714	85.4	122	14.6

Summary of Safety

Overall, based upon a review of AEs (deaths, serious AEs, AEs that led to discontinuation, and treatment-related events) and an assessment of ocular and systemic safety parameters, the administration of AA 15 mg or 30 mg by PJD at 6-month intervals for up to 48 months was safe and well tolerated in elderly patients 50 to 98 years of age with exudative AMD in 1 eye (non-study eye) and non-exudative AMD in the opposing eye (study eye) that was at risk for progressing to exudative AMD.

Serious Adverse Events

Eight-hundred eleven (811) patients experienced serious adverse events (SAEs). All SAEs occurring in patients treated with Anecortave Acetate (15 mg or 30 mg) were assessed as unrelated to the use of test article.

Other Adverse Events

Frequency and Incidence of Adverse Reactions (Safety Analysis Set)						
Treatment	AA 15 mg N = 866		AA 30 mg N = 862		Sham N = 868	
Coded Adverse Reaction	N	%	N	%	N	%
<i>Cardiac disorders</i>						
Myocardial Infarction	0	0.0	0	0.0	1	0.1
<i>Eye disorders</i>						
Cataract	1	0.1	2	0.2	3	0.3
Visual Acuity Reduced	5	0.6	1	0.1	1	0.1

Eyelid Oedema	3	0.3	0	0.0	0	0.0
Eyelid Ptosis	1	0.1	1	0.1	1	0.1
Macular Degeneration	1	0.1	1	0.1	1	0.1
Conjunctivitis	1	0.1	1	0.1	0	0.0
Foreign Body Sensation In Eyes	1	0.1	1	0.1	0	0.0
Ocular Hyperaemia	1	0.1	1	0.1	0	0.0
Erythema Of Eyelid	1	0.1	0	0.0	0	0.0
Eye Pain	1	0.1	0	0.0	0	0.0
Vision Blurred	1	0.1	0	0.0	0	0.0
Eye Discharge	0	0.0	1	0.1	1	0.1
Eye Irritation	0	0.0	1	0.1	1	0.1
Pupils Unequal	0	0.0	1	0.1	0	0.0
Visual Disturbance	0	0.0	1	0.1	0	0.0
Vitreous Detachment	0	0.0	1	0.1	0	0.0
Eye Swelling	0	0.0	0	0.0	1	0.1
<i>Infections and Infestations</i>						

Herpes Simplex Ophthalmic	0	0.0	0	0.0	1	0.1
<i>Injury, poisoning and procedural complications</i>						
Conjunctival Scar	2	0.2	1	0.1	0	0.0
<i>Investigations</i>						
Intraocular Pressure Decreased	1	0.1	0	0.0	0	0.0
Intraocular Pressure Increased	1	0.1	0	0.0	0	0.0
<i>Metabolism and nutrition disorders</i>						
Type 2 Diabetes Mellitus	1	0.1	0	0.0	0	0.0

AA = Anecortave Acetate

Coded Adverse Reaction = MedDRA Preferred Term (version 11.0) presented by System Organ Class

Other Relevant Findings

No other relevant findings to disclose.

Date of Clinical Trial Report

15-Aug-2010