

**Clinical trial results:**

A Multicenter, Randomized, Double-Blind Clinical Trial to Assess the Efficacy and Safety of Ciprofloxacin 0.3% plus Fluocinolone Acetonide 0.025% Otic Solution Compared to Ciprofloxacin 0.3% Otic solution and to Fluocinolone Acetonide 0.025% Otic Solution in the Treatment of Acute Otitis Media with Tympanostomy Tubes (AOMT) in Pediatric Patients.

Estudio multicéntrico, randomizado, doble ciego para evaluar la eficacia y seguridad de Ciprofloxacino 0,3% más Fluocinolona Acetónido 0,025% solución ótica en comparación con Ciprofloxacino 0,3% solución ótica y con Fluocinolona Acetónido 0,025% solución ótica en el tratamiento de Otitis Media Aguda con Tubos de Timpanostomía en Pacientes Pediatricos

Summary

EudraCT number	2010-023238-22
Trial protocol	ES SE FI DK CZ
Global end of trial date	23 June 2014

Results information

Result version number	v1 (current)
This version publication date	16 February 2016
First version publication date	12 June 2015

Trial information**Trial identification**

Sponsor protocol code	CIFLOTIII/10IA02
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Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT01395966
WHO universal trial number (UTN)	-

Notes:

Sponsors

Sponsor organisation name	Laboratorios SALVAT, S.A.
Sponsor organisation address	Gall 30-36, Esplugues de Llobregat, Spain, 08950
Public contact	Medical Department, Laboratorios SALVAT, S.A, +34 933946400, clinicaltrials@salvatbiotech.com
Scientific contact	Medical Director, Laboratorios SALVAT, S.A, +34 933946470, ejimenezv@salvatbiotech.com

Notes:

Paediatric regulatory details

Is trial part of an agreed paediatric	No
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investigation plan (PIP)

Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial? No

Does article 46 of REGULATION (EC) No 1901/2006 apply to this trial? No

Notes:

Results analysis stage

Analysis stage Final

Date of interim/final analysis 16 February 2015

Is this the analysis of the primary completion data? No

Global end of trial reached? Yes

Global end of trial date 23 June 2014

Was the trial ended prematurely? No

Notes:

General information about the trial

Main objective of the trial:

To evaluate the efficacy and safety of topical Ciprofloxacin 0.3% plus Fluocinolone Acetonide 0.025% otic solution. The primary endpoint was to demonstrate therapeutic superiority of Ciprofloxacin plus Fluocinolone Acetonide relative to Ciprofloxacin alone and to Fluocinolone Acetonide alone for time to cessation of otorrhea in pediatric patients suffering from acute otitis media with tympanostomy tubes (AOMT).

Protection of trial subjects:

Not applicable

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment 15 July 2011

Long term follow-up planned No

Independent data monitoring committee (IDMC) involvement? No

Notes:

Population of trial subjects

Subjects enrolled per country

Country: Number of subjects enrolled Spain: 13

Country: Number of subjects enrolled Sweden: 1

Country: Number of subjects enrolled Czech Republic: 1

Country: Number of subjects enrolled Denmark: 10

Country: Number of subjects enrolled Finland: 1

Country: Number of subjects enrolled South Africa: 62

Country: Number of subjects enrolled United States: 243

Worldwide total number of subjects 331

EEA total number of subjects 26

Notes:

Subjects enrolled per age group	
In utero	0
Preterm newborn - gestational age < 37 wk	0
Newborns (0-27 days)	0
Infants and toddlers (28 days-23 months)	121
Children (2-11 years)	209
Adolescents (12-17 years)	1
Adults (18-64 years)	0
From 65 to 84 years	0
85 years and over	0

Subject disposition

Recruitment

Recruitment details:

The recruitment period was from July 2011 to June 2014 in Europe (Czech Republic, Denmark, Finland, Spain and Sweden), South Africa and USA

Pre-assignment

Screening details:

Patients between 6 months and 12 years with AOMT. Patients had to suffer from otorrhea for 3 weeks or less. Otorrhea had to be moderate or severe and purulent.

Pre-assignment period milestones

Number of subjects started	331
Number of subjects completed	331

Period 1

Period 1 title	Study period (overall period)
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Subject, Investigator, Monitor, Data analyst, Carer, Assessor

Blinding implementation details:

The patient was randomized using IWRS.

All study medication products (test and comparators) had the same packaging and labels, and the boxes in which the study medication was packaged, shipped, and dispensed were identical in appearance.

The central laboratory was blinded to the treatment assignment of the patient from whom the sample was collected.

Arms

Are arms mutually exclusive?	Yes
Arm title	CIPRO + FLUO
Arm description: -	
Arm type	Experimental
Investigational medicinal product name	Ciprofloxacin plus Fluocinolone acetonide
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Ear drops, solution in single-dose container
Routes of administration	Auricular use

Dosage and administration details:

Administer the contents of one 0.25ml single dose vial twice a day to the affected ear(s) for seven days

Arm title	CIPRO
Arm description: -	
Arm type	Active comparator
Investigational medicinal product name	Ciprofloxacin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Ear drops, solution in single-dose container
Routes of administration	Auricular use

Dosage and administration details:

Administer the contents of one 0.25ml single dose vial twice a day to the affected ear(s) for seven days

Arm title	FLUO
Arm description: -	
Arm type	Active comparator
Investigational medicinal product name	Fluocinolone acetonide
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Ear drops, solution in single-dose container
Routes of administration	Auricular use

Dosage and administration details:

Administer the contents of one 0.25ml single dose vial twice a day to the affected ear(s) for seven days

Number of subjects in period 1	CIPRO + FLUO	CIPRO	FLUO
Started	112	109	110
Completed	104	99	91
Not completed	8	10	19
Consent withdrawn by subject	1	1	3
Physician decision	-	-	2
Adverse event, non-fatal	3	3	4
early termination	-	-	1
Lost to follow-up	2	1	1
Tube absent	1	-	-
Lack of efficacy	1	4	7
Protocol deviation	-	1	1

Baseline characteristics

Reporting groups

Reporting group title	CIPRO + FLUO
Reporting group description: -	
Reporting group title	CIPRO
Reporting group description: -	
Reporting group title	FLUO
Reporting group description: -	

Reporting group values	CIPRO + FLUO	CIPRO	FLUO
Number of subjects	112	109	110
Age categorical			
Units: Subjects			
6 months to 12 years	112	109	110
Gender categorical			
Units: Subjects			
Female	48	43	42
Male	64	66	68

Reporting group values	Total		
Number of subjects	331		
Age categorical			
Units: Subjects			
6 months to 12 years	331		
Gender categorical			
Units: Subjects			
Female	133		
Male	198		

End points

End points reporting groups

Reporting group title	CIPRO + FLUO
Reporting group description: -	
Reporting group title	CIPRO
Reporting group description: -	
Reporting group title	FLUO
Reporting group description: -	

Primary: Time to cessation of otorrhea

End point title	Time to cessation of otorrhea
End point description:	
End point type	Primary
End point timeframe:	
During all study (22 days)	

End point values	CIPRO + FLUO	CIPRO	FLUO	
Subject group type	Reporting group	Reporting group	Reporting group	
Number of subjects analysed	112	109	110	
Units: day				
median (confidence interval 95%)	3.75 (3.04 to 4.39)	7.69 (4.78 to 11.44)	22 (7.43 to 22)	

Statistical analyses

Statistical analysis title	Time to cessation of otorrhea
Statistical analysis description:	
The time to cessation of otorrhea was calculated in days. Survival analysis was done using non-parametric Kaplan-Meier method. Patients who did not discontinue prematurely and for whom the otorrhea still persists at the end of the study (or Day 22 if earlier) are censored at Day 22. Patients who discontinued for any reason or took rescue medication are censored at Day 22.	
Comparison groups	CIPRO + FLUO v CIPRO v FLUO
Number of subjects included in analysis	331
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.05
Method	Logrank

Adverse events

Adverse events information

Timeframe for reporting adverse events:

All the study

Assessment type	Non-systematic
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Dictionary used

Dictionary name	MedDRA
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Dictionary version	13.0
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Reporting groups

Reporting group title	CIPRO+FLUO
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Reporting group description: -

Reporting group title	CIPRO
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Reporting group description: -

Reporting group title	FLUO
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Reporting group description: -

Serious adverse events	CIPRO+FLUO	CIPRO	FLUO
Total subjects affected by serious adverse events			
subjects affected / exposed	0 / 113 (0.00%)	0 / 108 (0.00%)	0 / 106 (0.00%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events	0	0	0

Frequency threshold for reporting non-serious adverse events: 0 %

Non-serious adverse events	CIPRO+FLUO	CIPRO	FLUO
Total subjects affected by non-serious adverse events			
subjects affected / exposed	7 / 113 (6.19%)	4 / 108 (3.70%)	9 / 106 (8.49%)
Ear and labyrinth disorders			
Auricular swelling			
subjects affected / exposed	1 / 113 (0.88%)	0 / 108 (0.00%)	0 / 106 (0.00%)
occurrences (all)	1	0	0
Ear pain			
subjects affected / exposed	1 / 113 (0.88%)	1 / 108 (0.93%)	2 / 106 (1.89%)
occurrences (all)	1	1	2
Otorrhoea			
subjects affected / exposed	1 / 113 (0.88%)	0 / 108 (0.00%)	0 / 106 (0.00%)
occurrences (all)	1	0	0

Ear canal erythema subjects affected / exposed occurrences (all)	0 / 113 (0.00%) 0	0 / 108 (0.00%) 0	1 / 106 (0.94%) 1
Ear discomfort subjects affected / exposed occurrences (all)	0 / 113 (0.00%) 0	1 / 108 (0.93%) 1	0 / 106 (0.00%) 0
Ear haemorrhage subjects affected / exposed occurrences (all)	0 / 113 (0.00%) 0	0 / 108 (0.00%) 0	1 / 106 (0.94%) 1
Skin and subcutaneous tissue disorders			
Excessive granulation tissue subjects affected / exposed occurrences (all)	1 / 113 (0.88%) 1	0 / 108 (0.00%) 0	1 / 106 (0.94%) 1
Rash subjects affected / exposed occurrences (all)	1 / 113 (0.88%) 1	0 / 108 (0.00%) 0	1 / 106 (0.94%) 1
Dermatitis subjects affected / exposed occurrences (all)	0 / 113 (0.00%) 0	1 / 108 (0.93%) 1	0 / 106 (0.00%) 0
Eczema subjects affected / exposed occurrences (all)	0 / 113 (0.00%) 0	0 / 108 (0.00%) 0	1 / 106 (0.94%) 1
Infections and infestations			
Otitis media subjects affected / exposed occurrences (all)	2 / 113 (1.77%) 2	1 / 108 (0.93%) 1	3 / 106 (2.83%) 3
Otitis media acute subjects affected / exposed occurrences (all)	1 / 113 (0.88%) 1	1 / 108 (0.93%) 1	0 / 106 (0.00%) 0
Ear infection fungal subjects affected / exposed occurrences (all)	0 / 113 (0.00%) 0	0 / 108 (0.00%) 0	1 / 106 (0.94%) 1
Otitis externa subjects affected / exposed occurrences (all)	0 / 113 (0.00%) 0	1 / 108 (0.93%) 1	0 / 106 (0.00%) 0

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
02 March 2012	<ul style="list-style-type: none">• Revised the medical monitor for Canada and the United States and added contact information for medical monitors• Increased the number of study sites and add new countries
20 June 2012	Added a new country to the list of countries for planned study sites Updated procedure for return of study medication
16 May 2013	Changed sponsor contact Added and revised the medical monitors in all countries

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported