



Clinical trial results:

A Multi-Center, Phase 3, Randomized, Double-Blind, 4-Arm Clinical Trial to Compare the Safety and Efficacy of Clin-RA Gel vs. Clindamycin Phosphate 1.2% Gel vs. Tretinoin 0.025% Gel vs. Clin-RA Gel Vehicle in the Treatment of Acne Vulgaris

Summary

EudraCT number	2010-022911-20
Trial protocol	Outside EU/EEA
Global end of trial date	21 October 2003

Results information

Result version number	v1 (current)
This version publication date	29 July 2016
First version publication date	29 July 2016

Trial information

Trial identification

Sponsor protocol code	7001-G2HP-06-02
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Additional study identifiers

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

Notes:

Sponsors

Sponsor organisation name	Dow Pharmaceutical Sciences
Sponsor organisation address	127 Hospital Drive, #202, Vallejo, United States, CA 94589
Public contact	Group leader study manager, MEDA Pharma GmbH & Co. KG, +49 6172 888 01, 42b@medapharma.de
Scientific contact	Head of Corporate Clinical Affairs, MEDA Pharma GmbH & Co. KG, +49 6172 888 01, 42b@medapharma.de

Notes:

Paediatric regulatory details

Is trial part of an agreed paediatric investigation plan (PIP)	Yes
EMA paediatric investigation plan number(s)	EMA-000892-PIP01-10
Does article 45 of REGULATION (EC) No 1901/2006 apply to this trial?	Yes
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	22 January 2004
Is this the analysis of the primary completion data?	Yes
Primary completion date	21 October 2003
Global end of trial reached?	Yes
Global end of trial date	21 October 2003
Was the trial ended prematurely?	No

Notes:

General information about the trial

Main objective of the trial:

To compare the efficacy and safety of Clin-RA Gel to Clindamycin phosphate 1.2% Gel alone, Tretinoin 0.025% Gel alone, and Clin-RA Gel vehicle in the treatment of acne vulgaris.

Protection of trial subjects:

No specific additional measures to minimise pain and distress were required. The subjects could withdraw from treatment at any time and for any reason.

Background therapy: -

Evidence for comparator: -

Actual start date of recruitment	11 February 2003
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	United States: 1252
Worldwide total number of subjects	1252
EEA total number of subjects	0

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)	0
Children (2-11 years)	4
Adolescents (12-17 years)	796
Adults (18-64 years)	452
From 65 to 84 years	0
85 years and over	0

Subject disposition

Recruitment

Recruitment details: -

Pre-assignment

Screening details:

Male or female subjects of any race, 12 years of age or older, with acne vulgaris, presenting with 20-50 inflammatory lesions (papules and pustules), 20-100 non-inflammatory lesions (open and closed comedones), and < 2 nodules.

Period 1

Period 1 title	overall trial (overall period)
Is this the baseline period?	Yes
Allocation method	Randomised - controlled
Blinding used	Double blind
Roles blinded	Investigator, Subject

Arms

Are arms mutually exclusive?	Yes
Arm title	Clin-RA

Arm description: -

Arm type	Experimental
Investigational medicinal product name	Clindamycin phosphate and Tretinoin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Gel
Routes of administration	Topical use

Dosage and administration details:

Clindamycin phosphate 1.2% and Tretinoin 0.025%

Dosing: Once daily (at bedtime) x 12 weeks,

Mode of Administration: Topically applied to the face

Arm title	Clindamycin
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Arm description: -

Arm type	Active comparator
Investigational medicinal product name	Clindamycin phosphate
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Gel
Routes of administration	Topical use

Dosage and administration details:

Dosing: Once daily (at bedtime) x 12 weeks,

Concentration: Clindamycin phosphate 1.2%,

Mode of Administration: Topically applied to the face

Arm title	Tretinoin
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Arm description: -

Arm type	Active comparator
Investigational medicinal product name	Tretinoin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Gel
Routes of administration	Topical use

Dosage and administration details:

Dosing: Once-a-day application (at bedtime) x 12 weeks,

Concentration: Tretinoin 0.025%,

Mode of Administration: Topically applied to the face

Arm title	Vehicle
Arm description: -	
Arm type	Vehicle
Investigational medicinal product name	N/A (vehicle)
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Gel
Routes of administration	Topical use

Dosage and administration details:

Dosing: Once-a-day application (at bedtime) x 12 weeks;

Mode of Administration: Topically applied to the face

Number of subjects in period 1	Clin-RA	Clindamycin	Tretinoin
Started	420	208	417
Completed	366	176	363
Not completed	54	32	54
Adverse event, non-fatal	6	1	4
Other	7	1	1
Subject request	5	9	19
Lost to follow-up	26	13	18
Inappropriate Enrollment	1	4	6
Pregnancy	1	-	1
Protocol deviation	2	2	3
Lack of efficacy	6	2	2

Number of subjects in period 1	Vehicle
Started	207
Completed	182
Not completed	25
Adverse event, non-fatal	1
Other	2
Subject request	6
Lost to follow-up	11
Inappropriate Enrollment	1
Pregnancy	-
Protocol deviation	1
Lack of efficacy	3

Baseline characteristics

Reporting groups

Reporting group title	Clin-RA
Reporting group description: -	
Reporting group title	Clindamycin
Reporting group description: -	
Reporting group title	Tretinoin
Reporting group description: -	
Reporting group title	Vehicle
Reporting group description: -	

Reporting group values	Clin-RA	Clindamycin	Tretinoin
Number of subjects	420	208	417
Age categorical Units: Subjects			
In utero Preterm newborn infants (gestational age < 37 wks) Newborns (0-27 days) Infants and toddlers (28 days-23 months) Children (2-11 years) Adolescents (12-17 years) Adults (18-64 years) From 65-84 years 85 years and over			
Age continuous Units: years			
arithmetic mean	18.36	18.99	18.98
standard deviation	± 6.68	± 7.16	± 7.31
Gender categorical Units: Subjects			
Female	198	91	202
Male	222	117	215

Reporting group values	Vehicle	Total	
Number of subjects	207	1252	
Age categorical Units: Subjects			
In utero Preterm newborn infants (gestational age < 37 wks) Newborns (0-27 days) Infants and toddlers (28 days-23 months) Children (2-11 years) Adolescents (12-17 years) Adults (18-64 years) From 65-84 years		0 0 0 0 0 0 0 0	

85 years and over		0	
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Age continuous			
Units: years			
arithmetic mean	18.6		
standard deviation	± 7.52	-	
Gender categorical			
Units: Subjects			
Female	110	601	
Male	97	651	

End points

End points reporting groups

Reporting group title	Clin-RA
Reporting group description: -	
Reporting group title	Clindamycin
Reporting group description: -	
Reporting group title	Tretinoin
Reporting group description: -	
Reporting group title	Vehicle
Reporting group description: -	

Primary: Dichotomized Evaluator's Global Severity Score / Week 12

End point title	Dichotomized Evaluator's Global Severity Score / Week 12
End point description:	
End point type	Primary
End point timeframe:	
Week 12	

End point values	Clin-RA	Clindamycin	Tretinoin	Vehicle
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	420	208	417	207
Units: Success, Failure				
Success	85	32	62	18
Failure	335	176	355	189

Statistical analyses

Statistical analysis title	Clin-RA vs. Clindamycin
Comparison groups	Clindamycin v Clin-RA
Number of subjects included in analysis	628
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.147
Method	Cochran-Mantel-Haenszel

Statistical analysis title	Clin-RA vs. Tretinoin
Comparison groups	Clin-RA v Tretinoin

Number of subjects included in analysis	837
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.037
Method	Cochran-Mantel-Haenszel

Statistical analysis title	Clin-RA vs. Vehicle
Comparison groups	Clin-RA v Vehicle
Number of subjects included in analysis	627
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	Cochran-Mantel-Haenszel

Primary: Percent Change from Baseline in Inflammatory Lesion Count / Week 12	
End point title	Percent Change from Baseline in Inflammatory Lesion Count / Week 12
End point description:	
End point type	Primary
End point timeframe:	
Baseline and week 12	

End point values	Clin-RA	Clindamycin	Tretinoin	Vehicle
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	420	208	417	207
Units: percent change				
median (full range (min-max))	52.6 (-233 to 100)	46.4 (-190 to 100)	42.9 (-167 to 100)	25 (-188 to 100)

Statistical analyses

Statistical analysis title	Clin-RA vs. Clindamycin
Comparison groups	Clin-RA v Clindamycin
Number of subjects included in analysis	628
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.028
Method	Ranked ANOVA

Statistical analysis title	Clin-RA vs. Tretinoin
Comparison groups	Clin-RA v Tretinoin
Number of subjects included in analysis	837
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	Ranked ANOVA

Statistical analysis title	Clin-RA vs. Vehicle
Comparison groups	Clin-RA v Vehicle
Number of subjects included in analysis	627
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	Ranked ANOVA

Primary: Percent Change from Baseline in Non-inflammatory Lesion Count / Week 12

End point title	Percent Change from Baseline in Non-inflammatory Lesion Count / Week 12
End point description:	
End point type	Primary
End point timeframe:	
Baseline and week 12.	

End point values	Clin-RA	Clindamycin	Tretinoin	Vehicle
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	420	208	417	207
Units: percent change				
median (full range (min-max))	43.8 (-197 to 100)	27.5 (-265 to 100)	36.2 (-226 to 100)	23 (-212 to 100)

Statistical analyses

Statistical analysis title	Clin-RA vs. Clindamycin
Comparison groups	Clin-RA v Clindamycin

Number of subjects included in analysis	628
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	Ranked ANOVA

Statistical analysis title	Clin-RA vs. Tretinoin
Comparison groups	Clin-RA v Tretinoin
Number of subjects included in analysis	837
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.018
Method	Ranked ANOVA

Statistical analysis title	Clin-RA vs. Vehicle
Comparison groups	Clin-RA v Vehicle
Number of subjects included in analysis	627
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	Ranked ANOVA

Primary: Percent Change from Baseline in Total Lesion Count / Week 12

End point title	Percent Change from Baseline in Total Lesion Count / Week 12
End point description:	
End point type	Primary
End point timeframe:	
Baseline and week 12.	

End point values	Clin-RA	Clindamycin	Tretinoin	Vehicle
Subject group type	Reporting group	Reporting group	Reporting group	Reporting group
Number of subjects analysed	420	208	417	207
Units: percent change				
median (full range (min-max))	46.3 (-122 to 100)	33.9 (-138 to 96)	39.6 (-124 to 100)	22.2 (-153 to 97)

Statistical analyses

Statistical analysis title	Clin-RA vs. Clindamycin
Comparison groups	Clin-RA v Clindamycin
Number of subjects included in analysis	628
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	Ranked ANOVA

Statistical analysis title	Clin-RA vs. Tretinoin
Comparison groups	Clin-RA v Tretinoin
Number of subjects included in analysis	837
Analysis specification	Pre-specified
Analysis type	superiority
P-value	= 0.002
Method	Ranked ANOVA

Statistical analysis title	Clin-RA vs. Vehicle
Comparison groups	Clin-RA v Vehicle
Number of subjects included in analysis	627
Analysis specification	Pre-specified
Analysis type	superiority
P-value	< 0.001
Method	Ranked ANOVA

Adverse events

Adverse events information

Timeframe for reporting adverse events:

Up to 30 days post treatment

Assessment type	Systematic
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Dictionary used

Dictionary name	MedDRA
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Dictionary version	6.1
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Reporting groups

Reporting group title	Clin-RA
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Reporting group description:

Intent-to-Treat Subjects.

Reporting group title	Tretinoin
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Reporting group description:

Intent-to-Treat Subjects.

Reporting group title	Vehicle
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Reporting group description:

Intent-to-Treat Subjects.

Reporting group title	Clindamycin
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Reporting group description:

Intent-to-Treat Subjects.

Serious adverse events	Clin-RA	Tretinoin	Vehicle
Total subjects affected by serious adverse events			
subjects affected / exposed	4 / 420 (0.95%)	1 / 417 (0.24%)	0 / 207 (0.00%)
number of deaths (all causes)	0	0	0
number of deaths resulting from adverse events			
Injury, poisoning and procedural complications			
Ligament injury			
subjects affected / exposed	0 / 420 (0.00%)	0 / 417 (0.00%)	0 / 207 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Gastrointestinal disorders			
Abdominal pain	Additional description: 3 SAEs of same patient (abdominal pain, cholelithiasis, cholecystitis)		
subjects affected / exposed	1 / 420 (0.24%)	0 / 417 (0.00%)	0 / 207 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Oesophageal pain			

subjects affected / exposed	0 / 420 (0.00%)	1 / 417 (0.24%)	0 / 207 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 1	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Hepatobiliary disorders			
Cholelithiasis	Additional description: 3 SAEs of same patient (abdominal pain, cholelithiasis, cholecystitis)		
subjects affected / exposed	1 / 420 (0.24%)	0 / 417 (0.00%)	0 / 207 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Cholecystitis			
subjects affected / exposed	1 / 420 (0.24%)	0 / 417 (0.00%)	0 / 207 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Psychiatric disorders			
Drug dependence			
subjects affected / exposed	1 / 420 (0.24%)	0 / 417 (0.00%)	0 / 207 (0.00%)
occurrences causally related to treatment / all	0 / 1	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Musculoskeletal and connective tissue disorders			
Fracture			
subjects affected / exposed	2 / 420 (0.48%)	0 / 417 (0.00%)	0 / 207 (0.00%)
occurrences causally related to treatment / all	0 / 2	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0
Joint sprain			
subjects affected / exposed	0 / 420 (0.00%)	0 / 417 (0.00%)	0 / 207 (0.00%)
occurrences causally related to treatment / all	0 / 0	0 / 0	0 / 0
deaths causally related to treatment / all	0 / 0	0 / 0	0 / 0

Serious adverse events	Clindamycin		
Total subjects affected by serious adverse events			
subjects affected / exposed	2 / 208 (0.96%)		
number of deaths (all causes)	0		
number of deaths resulting from adverse events			
Injury, poisoning and procedural complications			
Ligament injury			

subjects affected / exposed	1 / 208 (0.48%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Gastrointestinal disorders			
Abdominal pain	Additional description: 3 SAEs of same patient (abdominal pain, cholelithiasis, cholecystitis)		
subjects affected / exposed	0 / 208 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Oesophageal pain			
subjects affected / exposed	0 / 208 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Hepatobiliary disorders			
Cholelithiasis	Additional description: 3 SAEs of same patient (abdominal pain, cholelithiasis, cholecystitis)		
subjects affected / exposed	0 / 208 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Cholecystitis			
subjects affected / exposed	0 / 208 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Psychiatric disorders			
Drug dependence			
subjects affected / exposed	0 / 208 (0.00%)		
occurrences causally related to treatment / all	0 / 0		
deaths causally related to treatment / all	0 / 0		
Musculoskeletal and connective tissue disorders			
Fracture			
subjects affected / exposed	1 / 208 (0.48%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Joint sprain			

subjects affected / exposed	1 / 208 (0.48%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		

Frequency threshold for reporting non-serious adverse events: 2.5 %

Non-serious adverse events	Clin-RA	Tretinoin	Vehicle
Total subjects affected by non-serious adverse events			
subjects affected / exposed	107 / 420 (25.48%)	96 / 417 (23.02%)	43 / 207 (20.77%)
Nervous system disorders			
Headache			
subjects affected / exposed	11 / 420 (2.62%)	4 / 417 (0.96%)	7 / 207 (3.38%)
occurrences (all)	11	4	7
Respiratory, thoracic and mediastinal disorders			
Upper respiratory tract infection			
subjects affected / exposed	11 / 420 (2.62%)	12 / 417 (2.88%)	8 / 207 (3.86%)
occurrences (all)	11	12	8
Nasopharyngitis			
subjects affected / exposed	6 / 420 (1.43%)	6 / 417 (1.44%)	2 / 207 (0.97%)
occurrences (all)	6	6	2
Skin and subcutaneous tissue disorders			
Application site dryness			
subjects affected / exposed	11 / 420 (2.62%)	11 / 417 (2.64%)	5 / 207 (2.42%)
occurrences (all)	11	11	5

Non-serious adverse events	Clindamycin		
Total subjects affected by non-serious adverse events			
subjects affected / exposed	43 / 208 (20.67%)		
Nervous system disorders			
Headache			
subjects affected / exposed	6 / 208 (2.88%)		
occurrences (all)	6		
Respiratory, thoracic and mediastinal disorders			
Upper respiratory tract infection			
subjects affected / exposed	2 / 208 (0.96%)		
occurrences (all)	2		
Nasopharyngitis			

subjects affected / exposed occurrences (all)	7 / 208 (3.37%) 7		
Skin and subcutaneous tissue disorders Application site dryness subjects affected / exposed occurrences (all)	1 / 208 (0.48%) 1		

More information

Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
27 March 2003	Implemented changes to study procedures and analyses requested by the FDA

Notes:

Interruptions (globally)

Were there any global interruptions to the trial? No

Limitations and caveats

None reported