

### **Clinical trial results:**

# A MULTICENTER, OPEN-LABEL, SINGLE ARM, LONG-TERM EXTENSION STUDY OF WA19926 TO DESCRIBE SAFETY DURING TREATMENT WITH TOCILIZUMAB IN PATIENTS WITH EARLY, MODERATE TO SEVERE RHEUMATOID ARTHRITIS

### **Summary**

EudraCT number	2011-006125-14	
Trial protocol	ни	
Global end of trial date	18 December 2014	
Results information		
Result version number	v1	
This version publication date	08 July 2016	
First version publication date	08 July 2016	

### **Trial information**

Trial identification		
Sponsor protocol code	ML28146	
Additional study identifiers		
ISRCTN number	-	
ClinicalTrials.gov id (NCT number)	NCT01649804	
WHO universal trial number (UTN)	-	
Notes:		

Sponsors		
Sponsor organisation name	F. Hoffmann-La Roche AG	
Sponsor organisation address	Grenzacherstrasse 124, Basel, Switzerland, CH-4070	
Public contact	F. Hoffmann-La Roche AG, F. Hoffmann-La Roche AG, +41 616878333, global.trial_information@roche.com	
Scientific contact	F. Hoffmann-La Roche AG, F. Hoffmann-La Roche AG, +41 616878333, global.trial_information@roche.com	

Notes:

Paediatric regulatory details	
Is trial part of an agreed paediatric investigation plan (PIP)	No
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	18 December 2014	
Is this the analysis of the primary completion data?	Yes	
Primary completion date	18 December 2014	
Global end of trial reached?	Yes	
Global end of trial date	18 December 2014	
Was the trial ended prematurely?	Yes	

Notes:

### General information about the trial

Main objective of the trial:

The primary objective for this study was to evaluate the long term safety of tocilizumab therapy in all enrolled participants.

Protection of trial subjects:

All study subjects were required to read and sign an informed consent form.

Background therapy: -

Evidence for comparator: -

Evidence for comparators	
Actual start date of recruitment	27 July 2012
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	Hungary: 12
Worldwide total number of subjects	12
EEA total number of subjects	12

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)	0
Adolescents (12-17 years)	0
Adults (18-64 years)	11
From 65 to 84 years	1
85 years and over	0

### **Subject disposition**

### Recruitment

Recruitment details: -

### **Pre-assignment**

Screening details:

A total number of 12 participants were enrolled in Hungary.

#### Period 1

Period 1 title	Overall Study (overall period)
Is this the baseline period?	Yes
Allocation method	Not applicable
Blinding used	Not blinded

### **Arms**

Arm title	Tocilizumab

### Arm description:

Tocilizumab (RoActemra/Actemra) 8 milligram/kilogram (mg/kg) intravenously every 4 weeks for 104 weeks. Dose could be reduced due to safety reasons at any time during the study.

Arm type	Experimental
Investigational medicinal product name	Tocilizumab
Investigational medicinal product code	
Other name	RoActemra/Actemra
Pharmaceutical forms	Concentrate for solution for infusion
Routes of administration	Intravenous use

Dosage and administration details:

Tocilizumab (RoActemra/Actemra) 8 milligram/kilogram (mg/kg) intravenously every 4 weeks for 104 weeks. Dose could be reduced due to safety reasons at any time during the study.

Number of subjects in period 1	Tocilizumab	
Started	12	
Completed	4	
Not completed	8	
Administrative/Other	8	

### **Baseline characteristics**

### Reporting groups Reporting group title Tocilizumab

Reporting group description:

Tocilizumab (RoActemra/Actemra) 8 milligram/kilogram (mg/kg) intravenously every 4 weeks for 104 weeks. Dose could be reduced due to safety reasons at any time during the study.

Reporting group values	Tocilizumab	Total	
Number of subjects	12	12	
Age categorical			
Units: Subjects			
	•		
Age continuous			
Units: years			
arithmetic mean	51.25		
standard deviation	± 8.67	-	
Gender, Male/Female			
Units: participants			
Female	8	8	
Male	4	4	

EU-CTR publication date: 08 July 2016

### **End points**

### **End points reporting groups**

Reporting group title	Tocilizumab

Reporting group description:

Tocilizumab (RoActemra/Actemra) 8 milligram/kilogram (mg/kg) intravenously every 4 weeks for 104 weeks. Dose could be reduced due to safety reasons at any time during the study.

### Primary: Percentage of Participants with Adverse Events (AEs), Serious Adverse Events (SAEs) and AEs of Special Interest (AESIs)

Percentage of Participants with Adverse Events (AEs), Serious
Adverse Events (SAEs) and AEs of Special Interest (AESIs)[1]

End point description:

An AE was considered any unfavorable and unintended sign, symptom, or disease associated with the use of the study drug, whether or not considered related to the study drug. A SAE was any experience that: resulted in death, was life-threatening, required in-patient hospitalization or prolongation of existing hospitalization, resulted in persistent or significant disability/incapacity, was a congenital anomaly/birth defect or was medically significant. Adverse Events of Special Interest for this study were: Serious and/or medically significant infections; myocardial infarction/Acute coronary syndrome; Gastrointestinal perforation; Malignancies; Anaphylaxis/hypersensitivity reactions; Demyelinating disorders; Stroke and Serious and/or medically significant bleeding and hepatic events. Analysis population included all the enrolled participants in the study.

End point type	Primary
End point type	Timery

End point timeframe:

End of Study (Week 104 or early withdrawal)

#### Notes:

[1] - No statistical analyses have been specified for this primary end point. It is expected there is at least one statistical analysis for each primary end point.

Justification: Statistical analysis was not performed as planned.

End point values	Tocilizumab		
Subject group type	Reporting group		
Number of subjects analysed	12		
Units: percentage of participants			
number (not applicable)			
AEs	75		
SAEs	0		
AESI	0		

### Statistical analyses

No statistical analyses for this end point

Secondary: Number of Participants With Remission, Low, Medium, and High Disease Activity, as Measured by Disease Activity Index 28 Erythrocyte Sedimentation Rate (DAS28-ESR)

·	Number of Participants With Remission, Low, Medium, and High Disease Activity, as Measured by Disease Activity Index 28 Erythrocyte Sedimentation Rate (DAS28-ESR)
	Liytillocyte Seulmentation Rate (DAS26-LSK)

End point description:

The DAS28 (ESR) score is a measure of the participant's disease activity. It is calculated using the tender joint count (28 joints), swollen joint count (28 joints), erythrocyte sedimentation rate (ESR) and general health status. The DAS28-ESR scale ranges from 0 to 10, where higher scores represent higher disease activity. Analysis population included all the enrolled participants in the study.

End point type	Secondary
End point timeframe:	

Screening and End of Study (Week 104 or early withdrawal)

End point values	Tocilizumab		
Subject group type	Reporting group		
Number of subjects analysed	12		
Units: participants			
number (not applicable)			
Remission (Baseline)	5		
Low Disease Activity (Baseline)	1		
Moderate Disease Activity (Baseline)	4		
High Disease Activity (Baseline)	2		
Remission (End of Study)	10		
Low Disease Activity (End of Study)	1		
Moderate Disease Activity (End of Study)	0		
High Disease Activity (End of Study)	1		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Participants With Remission, Low, Medium, and High Disease Activity, as Measured by Simplified Disease Activity Index (SDAI)

End point title	Number of Participants With Remission, Low, Medium, and High
	Disease Activity, as Measured by Simplified Disease Activity
	Index (SDAI)

#### End point description:

The SDAI was defined as the numerical sum of 5 outcome parameters: tender and swollen joint count (based on a 28-joint assessment), participant and physician global assessment of disease activity on a 100 millimeter (mm) Visual analogue scale (VAS) (VAS; 0 = no disease activity and 100 = worst disease activity) and level of C-reactive protein (CRP) (milligram per deciliter [mg/dl], normal < 1 mg/dl). SDAI total score = 0-86 where a higher score reflects worsening disease. SDAI <=3.3 indicates clinical remission, >3.4 to 11 = low disease activity, >11 to 26 = moderate disease activity, and >26 = high (or severe) disease activity. Analysis population included all the enrolled participants in the study.

End point type	Secondary
E 1 1111 C	

End point timeframe:

Screening and End of Study (Week 104 or early withdrawal)

End point values	Tocilizumab		
Subject group type	Reporting group		
Number of subjects analysed	12		
Units: participants			
number (not applicable)			
Remission (Baseline)	0		
Low Disease Activity (Baseline)	6		
Moderate Disease Activity (Baseline)	3		
High Disease Activity (Baseline)	3		
Remission (End of Study)	3		
Low Disease Activity (End of Study)	7		
Moderate Disease Activity (End of Study)	1		
High Disease Activity (End of Study)	1		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Participants With Decreased, Unchanged, and Increased Tender Joint Count (TJC)

End point title	Number of Participants With Decreased, Unchanged, and
	Increased Tender Joint Count (TJC)

End point description:

Tender joint count was performed by a skilled assessor, evaluating 68 joints for tenderness. Analysis population included all the evaluable participants for this outcome measure. "n" included all the participants analyzed on that particular time point.

End point type	Secondary
End point timeframe:	
Week 12 and Week 104	

End point values	Tocilizumab		
Subject group type	Reporting group		
Number of subjects analysed	11		
Units: participants			
number (not applicable)			
Decreased (Week 12; n=11)	5		
Unchanged (Week 12; n=11)	4		
Increased (Week 12;n=11)	2		
Decreased (Week 104;n=4)	2		
Unchanged (Week 104;n=4)	2		
Increased (Week 104;n=4)	0		

### Statistical analyses

No statistical analyses for this end point

Secondary: Number of Participants W	th Decreased, Unchang	ged, and Increased
Swollen Joint Count (SJC)		

End point title  Number of Participants With Decreased, Unchanged, and Increased Swollen Joint Count (SJC)	
--	--

End point description:

Swollen joint count was performed by a skilled assessor, evaluating 66 joints for swelling. Analysis population included all the evaluable participants for this outcome measure. "n" included all the participants analyzed on that particular time point.

End point type	Secondary
F 1 1111 C	

End point timeframe:

Week 12 and Week 104

End point values	Tocilizumab		
Subject group type	Reporting group		
Number of subjects analysed	11		
Units: participants			
number (not applicable)			
Decreased (Week 12; n=11)	3		
Unchanged (Week 12; n=11)	7		
Increased (Week 12;n=11)	1		
Decreased (Week 104;n=4)	2		
Unchanged (Week 104;n=4)	2		
Increased (Week 104;n=4)	0		

#### Statistical analyses

No statistical analyses for this end point

### Secondary: Time to Rheumatoid Arthritis (RA) Flare

	I_, , _, , , , , , , , , , , , , , , , ,
End point title	Time to Rheumatoid Arthritis (RA) Flare
End point title	Time to the diffaction for this (10.1) Thate

End point description:

RA flare was defined as any worsening of the participant's disease activity that in the opinion of the Investigator required treatment intensification beyond supportive therapy which included restarting of the study drug treatment. Time to RA flare was defined as the period of drug-free remission until documentation of RA flare. Data were not analyzed as there were no participants who had achieved clinical remission during the study.

End point type	Secondary

End point timeframe:

End of Study (Week 104 or early withdrawal)

End point values	Tocilizumab		
Subject group type	Reporting group		
Number of subjects analysed	0 <sup>[2]</sup>		
Units: Weeks			
median (full range (min-max))	( to )		

#### Notes:

[2] - No participant had achieved clinical remission during the study hence data was not analyzed.

### Statistical analyses

No statistical analyses for this end point

Secondary: Percentage of Participants with Clinical Remission	
End point title	Percentage of Participants with Clinical Remission

End point description:

Clinical remission was based on DAS28 (ESR) and SDAI. DAS28 (ESR) score is calculated using TJC (28 joints), SJC (28 joints), ESR and general health status. DAS28-ESR scale ranges from 0-10, where higher scores represent higher disease activity. DAS28 <= 3.2 implied low disease activity, DAS > 3.2 to 5.1 implied moderate disease activity and DAS > 5.1 implied high disease activity, and DAS28 < 2.6 = clinical remission. SDAI was defined as numerical sum of 5 outcome parameters: tender and swollen joint count (based on 28-joint assessment), participant and physician global assessment of disease activity on 100 mm VAS (VAS; 0 = no disease activity and 100 = worst disease activity) and level of C-reactive protein (CRP) (mg/dl, normal < 1 mg/dl). SDAI total score = 0-86 where a higher score reflects worsening disease. SDAI <= 3.3 indicates clinical remission,> 3.4 to 11 = low disease activity,> 11 to 26 = moderate disease activity, and > 26 = high (or severe) disease activity.

End point type	Secondary
End point timeframe:	
End of Study (Week 104 or early withdrawal)	

End point values	Tocilizumab		
Subject group type	Reporting group		
Number of subjects analysed	12		
Units: percentage of participants			
number (not applicable)	0		

### Statistical analyses

No statistical analyses for this end point

Secondary: Number of Participants With Decreased, Unchanged, and Increased
Participants Global Assessment of Disease Activity

End point title	Number of Participants With Decreased, Unchanged, and
	Increased Participants Global Assessment of Disease Activity

### End point description:

The participant global assessment of disease activity was measured using a 100 mm VAS ranging from 0=very good to 100=very bad. Analysis population included all the evaluable participants for this outcome measure. "n" included all the participants analyzed on that particular time point.

End point type	Secondary

End point timeframe:	
Week 12 and Week 104	

End point values	Tocilizumab		
Subject group type	Reporting group		
Number of subjects analysed	11		
Units: participants			
number (not applicable)			
Decreased (Week 12; n=11)	6		
Unchanged (Week 12; n=11)	0		
Increased (Week 12;n=11)	5		
Decreased (Week 104;n=4)	2		
Unchanged (Week 104;n=4)	0		
Increased (Week 104;n=4)	2		

### Statistical analyses

No statistical analyses for this end point

### Secondary: Number of Participants With Decreased, Unchanged, and Increased Participant Global assessment of Pain

End point title	Number of Participants With Decreased, Unchanged, and
	Increased Participant Global assessment of Pain

End point description:

A participant's overall assessment of pain on a VAS was assessed with a question concerning the amount of pain due to arthritis. Pain was assessed on a 100 mm VAS scale with a left-hand marker "no pain" (0 mm) or right-hand marker "extreme pain" (100 mm). Analysis population included all the evaluable participants for this outcome measure. "n" included all the participants analyzed on that particular time point.

End point type	Secondary
End point timeframe:	
Week 12 and Week 104	

End point values	Tocilizumab		
Subject group type	Reporting group		
Number of subjects analysed	11		
Units: participants			
number (not applicable)			
Decreased (Week 12; n=11)	7		
Unchanged (Week 12; n=11)	4		
Increased (Week 12;n=11)	0		
Decreased (Week 104;n=4)	2		
Unchanged (Week 104;n=4)	0		
Increased (Week 104;n=4)	2		

### Statistical analyses

No statistical analyses for this end point

## Secondary: Health Assessment Questionnaire Disability Index (HAQ-DI) End point title Health Assessment Questionnaire Disability Index (HAQ-DI)

End point description:

The Health Assessment Questionnaire Disability Index (HAQ-DI) is a participant-completed questionnaire specific for rheumatoid arthritis. It consists of 20 questions referring to 8 domains: dressing/grooming, arising, eating, walking, hygiene, reach, grip and common daily activities. Each domain has at least two component questions. There are four possible responses for each component ranging from 0 (without any difficulty) to 4 (unable to do). HAQ-DI=sum of worst scores in each domain divided by the number of domains answered. Analysis population included all the enrolled participants in the study.

End point type	Secondary
End point timeframe:	
End of Study (Week 104 or early withdrawal)	

End point values	Tocilizumab		
Subject group type	Reporting group		
Number of subjects analysed	12		
Units: units on a scale			
arithmetic mean (standard deviation)	1.18 (± 0.953)		

### Statistical analyses

No statistical analyses for this end point

### **Adverse events**

### **Adverse events information**

Timeframe for reporting adverse events:

End of Study (Week 104 or early withdrawal)

Adverse event reporting additional description:

An AE was any untoward medical occurrence in a study participant administered a pharmaceutical product, and which did not necessarily have a causal relationship with the treatment.

product, and which did not necessarily have a causal relationship with the treatment.

Assessment type

Systematic

### **Dictionary used**

Dictionary name	MedDRA
Dictionary version	12.0

### **Reporting groups**

-	
Reporting group title	Tocilizumab

Reporting group description:

Tocilizumab (RoActemra/Actemra) 8 mg/kg intravenously every 4 weeks for 104 weeks. Dose could be reduced due to safety reasons at any time during the study.

Serious adverse events	Tocilizumab	
Total subjects affected by serious adverse events		
subjects affected / exposed	0 / 12 (0.00%)	
number of deaths (all causes)	0	
number of deaths resulting from adverse events		

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

Non-serious adverse events	Tocilizumab	
Total subjects affected by non-serious adverse events		
subjects affected / exposed	9 / 12 (75.00%)	
Investigations		
White blood cell count decreased		
subjects affected / exposed	1 / 12 (8.33%)	
occurrences (all)	6	
Injury, poisoning and procedural complications		
Arthropod bite		
subjects affected / exposed	1 / 12 (8.33%)	
occurrences (all)	1	
Nonvous system disorders		
Nervous system disorders		

Sciatica		
subjects affected / exposed	1 / 12 (8.33%)	
occurrences (all)	1	
Gastrointestinal disorders Diarrhoea		
subjects affected / exposed	2 / 12 (16.67%)	
occurrences (all)		
occurrences (un)	2	
Ranula		
subjects affected / exposed	1 / 12 (8.33%)	
occurrences (all)	1	
Psychiatric disorders		
Dermatitis		
subjects affected / exposed	2 / 12 (16.67%)	
occurrences (all)	2	
Depression		
subjects affected / exposed	1 / 12 (8.33%)	
occurrences (all)	1	
,	_	
Musculoskeletal and connective tissue disorders		
Intervertebral disc disorder		
subjects affected / exposed	1 / 12 (8.33%)	
occurrences (all)	1	
Intervertebral disc protrusion		
subjects affected / exposed	1 / 12 (8.33%)	
occurrences (all)	1	
Infections and infestations Otitis externa		
subjects affected / exposed	1 / 12 (8.33%)	
occurrences (all)		
Coourt energy (un)	1	
Otitis media		
subjects affected / exposed	1 / 12 (8.33%)	
occurrences (all)	1	
Respiratory tract infection		
subjects affected / exposed	1 / 12 (8.33%)	
occurrences (all)	1	
, ,	<u> </u>	
Cystitis		

subjects affected / exposed occurrences (all)	1 / 12 (8.33%)	
Nasopharyngitis subjects affected / exposed occurrences (all)	3 / 12 (25.00%) 5	
Influenza subjects affected / exposed occurrences (all)	1 / 12 (8.33%)	

### **More information**

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? No

### **Interruptions (globally)**

Were there any global interruptions to the trial? No

### **Limitations and caveats**

None reported