



## Clinical trial results:

### Bi-weekly Cetuximab combined with FOLFOX-6 as first-line treatment in metastatic colorectal cancer patients with wild-type k-ras status

#### Summary

EudraCT number	2007-000460-24
Trial protocol	DE
Global end of trial date	23 September 2016

#### Results information

Result version number	v1 (current)
This version publication date	13 March 2020
First version publication date	13 March 2020
Summary attachment (see zip file)	SynpsosisCSR_2007-000460-24 (Cebifox_CSR_Synopsis_EudraCT 2007-000460-24.docx)

#### Trial information

##### Trial identification

Sponsor protocol code	TT1-2007
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##### Additional study identifiers

ISRCTN number	-
ClinicalTrials.gov id (NCT number)	NCT01051167
WHO universal trial number (UTN)	-

Notes:

##### Sponsors

Sponsor organisation name	University of Duisburg-Essen
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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	20 November 2018
Is this the analysis of the primary completion data?	Yes
Primary completion date	23 September 2016
Global end of trial reached?	Yes
Global end of trial date	23 September 2016
Was the trial ended prematurely?	No

Notes:

## General information about the trial

Main objective of the trial:

Response rate (using RECIST-Criteria vs 1.0)

Protection of trial subjects:

The treatment should be conducted exactly as described in the protocol. Any protocol deviation were reported. The recommendations of Good Clinical Practice (see ICH-GCP: International Conference on Harmonisation - Good Clinical Practice), valid since 17 January 1997, were met.

Background therapy:

Sedatives, antibiotics, analgesics, antihistamines, steroids, granulocyte-colony stimulating factor, erythropoietin, or other medications as well as red blood cells, platelets or fresh frozen plasma transfusions could be given to assist in the management of pain, infection, and other complications of the malignancy.

Patients had to be pre-medicated with an antihistamine and corticosteroid before receiving the first three infusions of cetuximab.

Premedication with an antihistamine and corticosteroid before subsequent infusions was recommended. Patients could be pre-medicated before oxaliplatin infusions according to local standard routine

Evidence for comparator:

Since this was a single arm trial, no comparators were used.

Actual start date of recruitment	14 August 2009
Long term follow-up planned	Yes
Long term follow-up rationale	Safety, Efficacy
Long term follow-up duration	36 Months
Independent data monitoring committee (IDMC) involvement?	No

Notes:

## Population of trial subjects

### Subjects enrolled per country

Country: Number of subjects enrolled	Germany: 57
Worldwide total number of subjects	57
EEA total number of subjects	57

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)	36
From 65 to 84 years	21
85 years and over	0

## Subject disposition

### Recruitment

Recruitment details:

Upon obtaining signed informed consent, screening evaluations were performed to confirm eligibility and to obtain baseline safety data.

Between 14-Aug-2009 (First patient in) and 21-Nov-2013 (Last patient in) 60 patients were registered by 6 sites ( medical practices as well as hospitals) in Germany.

### Pre-assignment

Screening details:

The selection of patients occurred through the investigator according to the inclusion and exclusion criteria after having informed the patient in writing and orally about the study and after the patient has signed the informed consent. These baseline examinations should be performed within 3 weeks before start of treatment.

### Pre-assignment period milestones

Number of subjects started	57
Number of subjects completed	57

### Period 1

Period 1 title	Start of therapy (overall period)
Is this the baseline period?	Yes
Allocation method	Non-randomised - controlled
Blinding used	Not blinded

### Arms

<b>Arm title</b>	Cetuximab + Folfox-6
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Arm description:

Biweekly Cetuximab in combination with a biweekly FOLFOX 6 regimen

Arm type	Experimental
Investigational medicinal product name	Cetuximab
Investigational medicinal product code	
Other name	Erbitux
Pharmaceutical forms	Solution for infusion
Routes of administration	Intravenous use

Dosage and administration details:

After registration into the clinical trial patients received cetuximab 500 mg/m<sup>2</sup> as an intravenous infusion on day 1 every 2 weeks. Infusion time was 120 minutes for the first treatment and was reduced to 90 minutes for the second infusion and to 60 minutes for subsequent infusions.

Investigational medicinal product name	Oxaliplatin
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Concentrate for solution for infusion
Routes of administration	Intravenous use

Dosage and administration details:

85 mg oxaliplatin /m<sup>2</sup> body surface area was given as i.v. infusion for 2 hours every 2 weeks

Investigational medicinal product name	Folinic acid
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Concentrate for solution for infusion
Routes of administration	Intravenous use

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Dosage and administration details:

400 mg folinic acid/m<sup>2</sup> was given as intravenous infusion over 120 minutes concurrently with oxaliplatin, d1, q14d

Investigational medicinal product name	5-Fluorouracil (5-FU)
Investigational medicinal product code	
Other name	
Pharmaceutical forms	Solution for infusion
Routes of administration	Intravenous use

Dosage and administration details:

400 mg 5 - Fluoruracil /m<sup>2</sup> iv was given as bolus after Folinic Acid, d1, q14d

After bolus infusion, 2400 mg/m<sup>2</sup> 5-FU was applied as iv infusion over 46 h, d1, q14d

<b>Number of subjects in period 1</b>	Cetuximab + Folfox-6
Started	57
Completed	57

## Baseline characteristics

### Reporting groups

Reporting group title	Start of therapy
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Reporting group description: -

Reporting group values	Start of therapy	Total	
Number of subjects	57	57	
Age categorical			
Male and female patients $\geq 18$ years of age could be registered. There was no maximum age limit. Age of patients was calculated by subtracting year of birth from year of enrolment.			
Units: Subjects			
<30 years	2	2	
30-40 years	1	1	
41-50 years	8	8	
51-60 years	17	17	
61-70 years	17	17	
71-80 years	12	12	
Age continuous			
Units: years			
arithmetic mean	60		
standard deviation	$\pm 1.67$	-	
Gender categorical			
There was no preferred enrolment of men or women within this study. However, pregnant or breast-feeding women were excluded from participation.			
Units: Subjects			
Female	21	21	
Male	36	36	

### Subject analysis sets

Subject analysis set title	ITT set
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Subject analysis set type	Intention-to-treat
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Subject analysis set description:

Received at least 1 administration of cetuximab

Subject analysis set title	Safety set
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Subject analysis set type	Safety analysis
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Subject analysis set description:

received at least 1 cycle of study medication

Subject analysis set title	PP set
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Subject analysis set type	Per protocol
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Subject analysis set description:

Received at least 5 cycles of study therapy

Reporting group values	ITT set	Safety set	PP set
Number of subjects	57	56	50
Age categorical			
Male and female patients $\geq 18$ years of age could be registered. There was no maximum age limit. Age of patients was calculated by subtracting year of birth from year of enrolment.			
Units: Subjects			

<30 years	2	2	2
30-40 years	1	1	1
41-50 years	8	8	7
51-60 years	17	17	14
61-70 years	17	17	16
71-80 years	12	11	10
Age continuous			
Units: years			
arithmetic mean	60	59.7	59.8
standard deviation	± 1.67	± 1.67	± 1.8
Gender categorical			
There was no preferred enrolment of men or women within this study. However, pregnant or breast-feeding women were excluded from participation.			
Units: Subjects			
Female	21	21	19
Male	36	35	31

## End points

### End points reporting groups

Reporting group title	Cetuximab + Folfox-6
Reporting group description:	Biweekly Cetuximab in combination with a biweekly FOLFOX 6 regimen
Subject analysis set title	ITT set
Subject analysis set type	Intention-to-treat
Subject analysis set description:	Received at least 1 administration of cetuximab
Subject analysis set title	Safety set
Subject analysis set type	Safety analysis
Subject analysis set description:	received at least 1 cycle of study medication
Subject analysis set title	PP set
Subject analysis set type	Per protocol
Subject analysis set description:	Received at least 5 cycles of study therapy

### Primary: Objective response rate (ORR) according to RECIST criteria

End point title	Objective response rate (ORR) according to RECIST criteria <sup>[1]</sup>
End point description:	The primary target value of this study was the objective response rate, using RECIST criteria. Each set of tumor responses was assessed to determine the best overall response. ORR was defined by number of patients with CR+PR as best response.
End point type	Primary
End point timeframe:	Tumor assessment was performed at baseline and every 8 weeks during study therapy; after last study treatment administration tumor assessment was performed every 3 months until end of follow-up.

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: Simon Two-Stage design. Altogether 37 patients of the ITT set had CR or PR as best response; this amounted to an ORR of 65%.

DCR (CR+PR+SD) was 84.1%. In the first stage 25 responders and in the second stage 35 responders were observed, which was more than the necessary number ( $\geq 13$  responders in the first stage and  $\geq 25$  responders after completion of the second stage) to reject the null hypothesis  $H_0: p \leq 0.35$ .

End point values	Cetuximab + Folfox-6	ITT set	Safety set	PP set
Subject group type	Reporting group	Subject analysis set	Subject analysis set	Subject analysis set
Number of subjects analysed	57	57	56	50
Units: number of patients				
Complete remission (CR)	1	1	1	1
Partial response (PR)	36	36	36	35
Stable disease (SD)	11	11	11	9
Progressive disease (PD)	5	5	5	3
Not evaluated	4	4	3	2
ORR (CR+PR)	37	37	37	36

## Statistical analyses

No statistical analyses for this end point

### Secondary: Duration of response

End point title | Duration of response

End point description:

Patients with documented objective response, namely CR and PR, were included into this calculation.

End point type | Secondary

End point timeframe:

For this analysis patients were censored at time point of metastasectomy or loss to follow up.

End point values	Cetuximab + Folfox-6	ITT set	Safety set	PP set
Subject group type	Reporting group	Subject analysis set	Subject analysis set	Subject analysis set
Number of subjects analysed	37	37	37	36
Units: months				
median (confidence interval 95%)	10.28 (4.18 to 16.39)			

## Statistical analyses

No statistical analyses for this end point

### Secondary: Metastasectomy rate

End point title | Metastasectomy rate

End point description:

Proportions of patients who were able to undergo complete metastasectomy after study treatment

End point type | Secondary

End point timeframe:

From start of therapy until end of study treatment

<b>End point values</b>	Cetuximab + Folfox-6	ITT set	Safety set	PP set
Subject group type	Reporting group	Subject analysis set	Subject analysis set	Subject analysis set
Number of subjects analysed	57	57	56	50
Units: number of patients	19	19	19	18

## Statistical analyses

No statistical analyses for this end point

### Secondary: Progression free survival

End point title	Progression free survival
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End point description:

Progression free survival of a patient was defined as the time in months from registration until PD is observed or death occurs due to any cause within 90 days after the last tumor assessment or registration. Patients not known to progress or die were censored at their date of last contact or 90 days after the last tumor assessment or registration, whichever came first.

End point type	Secondary
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End point timeframe:

From registration until observed PD or death due to any cause within 90 days after the last tumor assessment or registration

<b>End point values</b>	Cetuximab + Folfox-6	ITT set	Safety set	PP set
Subject group type	Reporting group	Subject analysis set	Subject analysis set	Subject analysis set
Number of subjects analysed	57	57	56	50
Units: months				
median (confidence interval 95%)	10.05 (8.33 to 11.775)	10.05 (8.33 to 11.775)	10.81 (9.10 to 12.52)	10.94 (9.39 to 12.49)

## Statistical analyses

No statistical analyses for this end point

### Secondary: Overall survival

End point title	Overall survival
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End point description:

OS (in months) was measured from the date of registration until death occurs due to any cause. OS for subjects not known to die will be censored at their date of last contact.

End point type	Secondary
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End point timeframe:

From the date of registration until death occurs due to any cause.

<b>End point values</b>	Cetuximab + Folfox-6	ITT set	Safety set	PP set
Subject group type	Reporting group	Subject analysis set	Subject analysis set	Subject analysis set
Number of subjects analysed	57	57	56	50
Units: months				
median (confidence interval 95%)	28.65 (18.86 to 38.44)	28.65 (18.86 to 38.44)	29.37 (17.03 to 41.71)	29.37 (17.33 to 41.41)

## Statistical analyses

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No statistical analyses for this end point

## Adverse events

### Adverse events information

Timeframe for reporting adverse events:

From start of signing informed consent until end of treatment

Adverse event reporting additional description:

Toxicities were defined according to the NCI-CTC-Toxicity Criteria version 3.0. Any AE that occurred in the course of a clinical study were monitored and followed up until the End of Study Visit.

Only AEs of special interest were taken into account.

Assessment type	Systematic
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### Dictionary used

Dictionary name	MedDRA
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Dictionary version	20.0
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### Reporting groups

Reporting group title	ITT set
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Reporting group description: -

<b>Serious adverse events</b>	ITT set		
Total subjects affected by serious adverse events			
subjects affected / exposed	19 / 57 (33.33%)		
number of deaths (all causes)	36		
number of deaths resulting from adverse events	1		
Injury, poisoning and procedural complications			
Lumbar vertebral fracture			
subjects affected / exposed	2 / 57 (3.51%)		
occurrences causally related to treatment / all	0 / 2		
deaths causally related to treatment / all	0 / 0		
Infusion related reaction			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	1 / 1		
deaths causally related to treatment / all	0 / 0		
Nervous system disorders			
Dizziness			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
General disorders and administration site conditions			

Asthenia			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	1 / 1		
deaths causally related to treatment / all	0 / 0		
General physical health deterioration			
subjects affected / exposed	4 / 57 (7.02%)		
occurrences causally related to treatment / all	4 / 4		
deaths causally related to treatment / all	0 / 0		
Chills			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Fatigue			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	1 / 1		
deaths causally related to treatment / all	0 / 0		
Pyrexia			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	2 / 2		
deaths causally related to treatment / all	0 / 0		
Ear and labyrinth disorders			
Vertigo			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	0 / 2		
deaths causally related to treatment / all	0 / 0		
Gastrointestinal disorders			
Stricture/stenosis GI - Colon sigmoideum			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	0 / 2		
deaths causally related to treatment / all	0 / 0		
Abdominal pain			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		

Nausea			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	1 / 1		
deaths causally related to treatment / all	0 / 0		
Diarrhoea			
subjects affected / exposed	2 / 57 (3.51%)		
occurrences causally related to treatment / all	2 / 2		
deaths causally related to treatment / all	0 / 0		
Ileus			
subjects affected / exposed	2 / 57 (3.51%)		
occurrences causally related to treatment / all	0 / 2		
deaths causally related to treatment / all	0 / 0		
Skin and subcutaneous tissue disorders			
Rosacea			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	1 / 1		
deaths causally related to treatment / all	0 / 0		
Psychiatric disorders			
Depression			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
Renal and urinary disorders			
Acute kidney injury			
subjects affected / exposed	2 / 57 (3.51%)		
occurrences causally related to treatment / all	0 / 2		
deaths causally related to treatment / all	0 / 1		
Urinary tract obstruction			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	1 / 1		
deaths causally related to treatment / all	0 / 0		
Infections and infestations			
Device related infection			

subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 1		
<b>Pyelonephritis</b>			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	1 / 1		
deaths causally related to treatment / all	0 / 0		
<b>Infection</b>			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	2 / 2		
deaths causally related to treatment / all	0 / 0		
<b>Product issues</b>			
<b>Device malfunction</b>			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		
<b>Metabolism and nutrition disorders</b>			
<b>Dehydration</b>			
subjects affected / exposed	1 / 57 (1.75%)		
occurrences causally related to treatment / all	0 / 1		
deaths causally related to treatment / all	0 / 0		

Frequency threshold for reporting non-serious adverse events: 1 %

<b>Non-serious adverse events</b>	ITT set		
<b>Total subjects affected by non-serious adverse events</b>			
subjects affected / exposed	57 / 57 (100.00%)		
<b>Investigations</b>			
<b>Lipase</b>			
subjects affected / exposed	8 / 57 (14.04%)		
occurrences (all)	12		
<b>Amylase</b>			
subjects affected / exposed	2 / 57 (3.51%)		
occurrences (all)	2		
<b>Hypocalcaemia</b>			

<p>subjects affected / exposed occurrences (all)</p> <p>Hypomagnesaemia subjects affected / exposed occurrences (all)</p>	<p>1 / 57 (1.75%) 1</p> <p>3 / 57 (5.26%) 6</p>		
<p>Nervous system disorders</p> <p>Peripheral sensory neuropathy/Nervous system disorder subjects affected / exposed occurrences (all)</p> <p>Peripheral motor neuropathy subjects affected / exposed occurrences (all)</p>	<p>31 / 57 (54.39%) 51</p> <p>3 / 57 (5.26%) 4</p>		
<p>Blood and lymphatic system disorders</p> <p>Lymphopenia subjects affected / exposed occurrences (all)</p> <p>Platelet count decreased subjects affected / exposed occurrences (all)</p> <p>White blood cell count decreased subjects affected / exposed occurrences (all)</p> <p>Granulocytes count decreased subjects affected / exposed occurrences (all)</p> <p>Haemoglobin (Anemia) subjects affected / exposed occurrences (all)</p>	<p>2 / 57 (3.51%) 5</p> <p>14 / 57 (24.56%) 34</p> <p>17 / 57 (29.82%) 22</p> <p>18 / 57 (31.58%) 31</p> <p>9 / 57 (15.79%) 14</p>		
<p>General disorders and administration site conditions</p> <p>Adverse drug reaction/Hypersensitivity subjects affected / exposed occurrences (all)</p> <p>Chills/Pyrexia subjects affected / exposed occurrences (all)</p>	<p>6 / 57 (10.53%) 7</p> <p>7 / 57 (12.28%) 9</p>		

Cytokine release syndrome subjects affected / exposed occurrences (all)	1 / 57 (1.75%) 1		
Eye disorders			
Dry eye subjects affected / exposed occurrences (all)	3 / 57 (5.26%) 3		
Eyelid disorder subjects affected / exposed occurrences (all)	1 / 57 (1.75%) 1		
Lacrimation increased subjects affected / exposed occurrences (all)	1 / 57 (1.75%) 1		
Uveitis subjects affected / exposed occurrences (all)	1 / 57 (1.75%) 1		
Conjunctivitis subjects affected / exposed occurrences (all)	5 / 57 (8.77%) 5		
Gastrointestinal disorders			
Constipation subjects affected / exposed occurrences (all)	9 / 57 (15.79%) 9		
Diarrhoea subjects affected / exposed occurrences (all)	24 / 57 (42.11%) 32		
Nausea/Malaise subjects affected / exposed occurrences (all)	28 / 57 (49.12%) 56		
Vomiting subjects affected / exposed occurrences (all)	8 / 57 (14.04%) 11		
Stomatitis/Oesophagitis subjects affected / exposed occurrences (all)	15 / 57 (26.32%) 19		
Hepatobiliary disorders			

Transaminases abnormal subjects affected / exposed occurrences (all)	4 / 57 (7.02%) 7		
Blood alkaline phosphatase subjects affected / exposed occurrences (all)	4 / 57 (7.02%) 4		
<b>Skin and subcutaneous tissue disorders</b>			
Dermatitis acneiform subjects affected / exposed occurrences (all)	35 / 57 (61.40%) 53		
Dry skin subjects affected / exposed occurrences (all)	2 / 57 (3.51%) 3		
Eczema subjects affected / exposed occurrences (all)	1 / 57 (1.75%) 1		
rash (Exfoliative, maculo-papular) /Folliculitis subjects affected / exposed occurrences (all)	23 / 57 (40.35%) 32		
Skin disorder/ haemorrhage/ hyperpigmentation subjects affected / exposed occurrences (all)	9 / 57 (15.79%) 14		
Skin fissures subjects affected / exposed occurrences (all)	2 / 57 (3.51%) 3		
Nail bed inflammation/nail disorder subjects affected / exposed occurrences (all)	4 / 57 (7.02%) 4		
Palmar-plantar erythrodysesthesia syndrome subjects affected / exposed occurrences (all)	10 / 57 (17.54%) 15		
Pruritus subjects affected / exposed occurrences (all)	3 / 57 (5.26%) 3		
<b>Infections and infestations</b>			

<p>Febrile infection</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>	<p>2 / 57 (3.51%)</p> <p>3</p>		
<p>Infection</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>	<p>4 / 57 (7.02%)</p> <p>4</p>		
<p>Neutropenic infection</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>	<p>2 / 57 (3.51%)</p> <p>2</p>		
<p>Metabolism and nutrition disorders</p> <p>Appetite lost</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Cachexia</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p> <p>Weight decreased</p> <p>subjects affected / exposed</p> <p>occurrences (all)</p>	<p>1 / 57 (1.75%)</p> <p>1</p> <p>7 / 57 (12.28%)</p> <p>9</p> <p>3 / 57 (5.26%)</p> <p>3</p>		

## More information

### Substantial protocol amendments (globally)

Were there any global substantial amendments to the protocol? Yes

Date	Amendment
16 April 2009	Change in time points of blood sampling for translational project Change in patient's questionnaires
10 February 2010	Prolongation of recruiting period Change in time points of blood sampling for translational research project (at baseline and at administration of second study treatment cycle No central K-RAS assessment
09 June 2010	Change of exclusion criteria
27 December 2011	Change of sponsor representative and coordinating investigator

Notes:

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### Interruptions (globally)

Were there any global interruptions to the trial? No

### Limitations and caveats

None reported