

A two-arm phase II randomised trial of intermittent chemotherapy plus continuous cetuximab and of intermittent chemotherapy plus intermittent cetuximab in first line treatment of patients with K-ras-normal (wild-type) metastatic colorectal cancer

Submission date 25/10/2006	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 04/01/2007	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 04/04/2022	Condition category Cancer	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

<https://www.cancerresearchuk.org/about-cancer/find-a-clinical-trial/a-trial-looking-at-chemotherapy-and-cetuximab-for-advanced-bowel-cancer>

Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

EudraCT/CTIS number

2006-003049-17

IRAS number**ClinicalTrials.gov number**

NCT00640081

Secondary identifying numbers

CR11

Study information

Scientific Title

A two-arm phase II randomised trial of intermittent chemotherapy plus continuous cetuximab and of intermittent chemotherapy plus intermittent cetuximab in first line treatment of patients with K-ras-normal (wild-type) metastatic colorectal cancer

Acronym

COIN-B

Study objectives

The primary questions in the COIN-B trial are about how biological therapy with cetuximab might be best added to chemotherapy, and about the benefits of intermittent chemotherapy.

On 17/02/2009 this record was extensively updated. All updates can be found under the relevant fields with the above update date. At this time, the title of this trial was updated. The initial title at the time of registration was: 'A two-arm phase II randomised trial of intermittent chemotherapy plus continuous cetuximab and of intermittent chemotherapy plus intermittent cetuximab in first line treatment of metastatic colorectal cancer'. Please also note that the target number of participants was changed from 136 to 158 and the overall trial end date was changed from 31/12/2008 to 31/12/2009.

On 07/02/2012 the following changes were made to the trial record:

1. The target number of participants was changed from 158 to 169.
2. The overall trial end date was changed from 31/12/2009 to 01/06/2010.

Ethics approval required

Old ethics approval format

Ethics approval(s)

South West Multi-Centre Research Ethics Committee, 18/12/2006, CTA: 00316/0220/001-0001

Study design

Interventional two-arm phase II randomised trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

Health condition(s) or problem(s) studied

Metastatic colorectal cancer

Interventions

Amended as of 17/02/2009:

Patients with metastatic colorectal cancer (mCRC) who are fit for combination chemotherapy with the same inclusion criteria as the main COIN study and whose tumour is found to be K-raswt, will be randomised to receive either:

Arm D: intermittent chemotherapy plus intermittent cetuximab treatment comprising 12 weeks of chemotherapy plus cetuximab followed by a period off all therapy, with reintroduction of the same chemotherapy and cetuximab regimen for a further 12 weeks after initial progression off treatment

OR

Arm E: intermittent chemotherapy plus continuous cetuximab treatment comprising 12 weeks of chemotherapy plus cetuximab followed by a period of withdrawal of the chemotherapy, but continued weekly cetuximab monotherapy (maintenance cetuximab), with reintroduction of the same chemotherapy regimen to the cetuximab for a further 12 weeks after initial progression off chemotherapy treatment

Initial information at time of registration:

Patients with metastatic colorectal cancer who are fit for combination chemotherapy with the same inclusion criteria as the main COIN study, will be randomised at the start of chemotherapy to receive either:

Arm D: intermittent chemotherapy plus intermittent cetuximab treatment comprising 12 weeks of chemotherapy plus cetuximab followed by a period off all therapy, with reintroduction of the same chemotherapy and cetuximab regimen for a further 12 weeks after initial progression off treatment.

OR

Arm E: intermittent chemotherapy plus continuous cetuximab treatment comprising 12 weeks of chemotherapy plus cetuximab followed by a period of withdrawal of the chemotherapy, but continued weekly cetuximab monotherapy (maintenance cetuximab), with reintroduction of the same chemotherapy regimen to the cetuximab for a further 12 weeks after initial progression off chemotherapy treatment.

Intervention Type

Drug

Phase

Phase II

Drug/device/biological/vaccine name(s)

Cetuximab

Primary outcome measure

Failure-free survival at ten months.

Secondary outcome measures

Amended as of 17/02/2009:

1. To assess the safety of cetuximab reintroduction with regards to frequency of Grade 3 and 4 allergic reactions
2. To evaluate whether either arm will result in improved disease control (CR+PR+SD) at 24 weeks, overall survival, progression-free survival, response rates at 12, 24 and 36 weeks and toxicity
3. Quality of life

Initial information at time of registration:

1. To assess the safety of cetuximab reintroduction with regards to frequency of grade three and four allergic reactions
2. To evaluate whether either arm will result in improved disease control (CR+PR+SD) at 24 weeks, overall survival, progression-free survival, response rates at 12, 24 and 36 weeks and toxicity, and compare these outcomes in an indirect comparison with the main COIN arms

Overall study start date

01/12/2006

Completion date

01/06/2010

Eligibility**Key inclusion criteria**

Amended as of 17/02/2009:

1. Written informed consent
2. Consent for screening of an archival formalin-fixed paraffin embedded (FFPE) tumour block for determination of K-ras status, with only patients with only K-raswt tumours being eligible for randomisation
3. Once K-raswt status confirmed, written informed consent for participation in the trial
4. Patients at least 18 years or over, either sex
5. Confirmed colorectal adenocarcinoma:
 - 5.1. Either previous or current histologically-confirmed primary adenocarcinoma of colon or rectum, together with clinical or radiological evidence of current advanced and/or metastatic disease, or
 - 5.2. Histologically/cytologically-confirmed metastatic adenocarcinoma, together with clinical and/or radiological evidence of colorectal primary tumour

6. Inoperable metastatic or locoregional disease
7. Patients with potentially resectable liver metastases are eligible (see exclusion criteria)
8. Unidimensionally measurable disease (Response Evaluation Criteria in Solid Tumours [RECIST] criteria). Baseline computed tomography (CT) scan must be performed within 4 weeks prior to treatment
9. No previous systemic palliative chemotherapy for metastatic disease
10. Adjuvant chemotherapy with 5FU +/- FA, capecitabine or irinotecan may have been given, if completed greater than 1 month prior to trial entry
11. Chemoradiotherapy with 5FU +/- FA or capecitabine for rectal cancer may have been given, if completed greater than 1 month prior to trial entry
12. World Health Organization (WHO) performance status (PS) 0, 1 or 2 and considered by responsible consultant to be fit to undergo combination chemotherapy
13. Baseline laboratory tests (within 1 week prior to randomisation):
 - 13.1. Neutrophils greater than or equal to $1.5 \times 10^9/l$ and platelet count greater than or equal to $100 \times 10^9/l$
 - 13.2. Serum bilirubin less than or equal to 1.25 x upper limit of normal (ULN), alkaline phosphatase less than or equal to 5 x ULN, and serum transaminase (either aspartate aminotransferase [AST] or alanine aminotransferase [ALT]) less than or equal to 2.5 x ULN
 - 13.3. Estimated creatinine clearance (Cockcroft and Gault) greater than or equal to 50 ml/min or measured glomerular filtration rate (GFR) (ethylenediaminetetraacetic acid [EDTA] clearance) greater than or equal to 50 ml/min
14. For women of childbearing potential, negative pregnancy test and adequate contraceptive precautions
15. Effective contraception for male patients if the risk of conception exists
16. Written informed consent to allow pathological material to be analysed for estimated glomerular filtration rate (EGFR) status, even if this is already known

Initial information at time of registration:

1. Patients at least 18 years or over
2. Confirmed colorectal adenocarcinoma:
 - 2.1. Previous or current histologically-confirmed primary adenocarcinoma of colon or rectum, together with clinical or radiological evidence of current advanced and/or metastatic disease
 - 2.2. Histologically/cytologically-confirmed metastatic adenocarcinoma, together with clinical and/or radiological evidence of colorectal primary tumour
3. Inoperable metastatic or locoregional disease
4. Patients with potentially resectable liver metastases are eligible (see exclusion criteria)
5. Uni-dimensionally measurable disease (Response Evaluation Criteria in Solid Tumours [RECIST] criteria). Baseline computed tomography (CT) scan must be performed within four weeks prior to treatment
6. No previous systemic palliative chemotherapy for metastatic disease
7. Adjuvant chemotherapy with 5-fluorouracil (5FU) with or without folinic acid (FA), capecitabine or irinotecan may have been given, if completed more than one month prior to trial entry
8. Chemoradiotherapy with 5FU with or without FA or capecitabine for rectal cancer may have been given, if completed more than one month prior to trial entry
9. World Health Organization (WHO) performance status zero, one or two and considered by responsible consultant to be fit to undergo combination chemotherapy
10. Baseline laboratory tests (within one week prior to randomisation):
 - 10.1. Neutrophils more than or equal to $1.5 \times 10^9/l$ and platelet count more than or equal to $100 \times 10^9/l$
 - 10.2. Serum bilirubin less than or equal to 1.25 x upper limit of normal (ULN), alkaline phosphatase less than or equal to 5 x ULN, and serum transaminases (either aspartate

transaminase [AST] or alanine transaminase [ALT]) less than 3 x ULN

11. Estimated creatinine clearance (Cockcroft and Gault Formula) more than or equal to 50 ml/min or measured glomerular filtration rate (GFR) (ethylenediaminetetraacetic acid [EDTA] clearance) more than or equal to 50 ml/min

12. For women of childbearing potential, negative pregnancy test and adequate contraceptive precautions

13. Effective contraception for male patients if the risk of conception exists

14. Written informed consent for participation in the trial

15. Written informed consent to allow pathological material to be analysed for estimated GFR (EGFR) testing

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

169 wild type patients

Total final enrolment

130

Key exclusion criteria

Amended as of 17/02/2009:

1. Patients who have a confirmed K-ras mutation in their tumour post screening
2. Patients who are receiving combination chemotherapy prior to the planned resection of operable liver metastases (defined as less than 4 unilobar liver metastases, each less than 4 cm in size and without major vascular involvement). Patients outside these criteria are of uncertain operability and are eligible.
3. Patients who have received any prior chemotherapy with oxaliplatin
4. Patients who are unfit for the chemotherapy regimens in this protocol, e.g.:
 - 4.1. Severe uncontrolled concurrent medical illness (including poorly controlled angina or very recent myocardial infarction [MI], i.e. in previous 12 weeks) likely to interfere with protocol treatments
 - 4.2. Any psychiatric or neurological condition which is felt likely to compromise the patient's ability to give informed consent or to comply with oral medication
 - 4.3. Partial or complete bowel obstruction
 - 4.4. Pre-existing neuropathy (greater than Grade 1)
5. Patients requiring ongoing treatment with a contraindicated concomitant
6. Patients with another previous or current malignant disease which, in the judgement of the treating investigator, is likely to interfere with COIN-B treatment or assessment of response
7. Patients with known hypersensitivity reactions to any of the components of the study treatments
8. Patients with brain metastases

9. Patients with a personal or family history of dihydropyrimidine dehydrogenase (DPD) deficiency, or with proven DPD deficiency

Initial information at time of registration:

1. Patients who are receiving combination chemotherapy prior to the planned resection of operable liver metastases (defined as less than four unilobar liver metastases, each less than 4 cm in size and without major vascular involvement). Patients outside these criteria are of uncertain operability and are eligible
2. Patients who have received any prior chemotherapy with oxaliplatin
3. Patients who are unfit for the chemotherapy regimens in this protocol, e.g.:
 - 3.1. Severe uncontrolled concurrent medical illness (including poorly controlled angina or very recent Myocardial Infarction (MI), i.e. in previous 12 weeks) likely to interfere with protocol treatments
 - 3.2. Any psychiatric or neurological condition which is felt likely to compromise the patient's ability to give informed consent or to comply with oral medication
 - 3.3. Partial or complete bowel obstruction
 - 3.4. Pre-existing neuropathy (more than Grade one)
4. Patients requiring ongoing treatment with a contraindicated concomitant medication
5. Patients with another previous or current malignant disease, which, in the judgement of the treating investigator, is likely to interfere with COIN-B treatment or assessment of response
6. Patients with known hypersensitivity reactions to any of the components of the study treatments
7. Patients with brain metastases

Date of first enrolment

01/12/2006

Date of final enrolment

01/06/2010

Locations

Countries of recruitment

Cyprus

England

United Kingdom

Study participating centre

MRC CTU

London

United Kingdom

WC2B 6NH

Sponsor information

Organisation

Medical Research Council (MRC) (UK)

Sponsor details

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Sponsor type

Research council

Website

<http://www.ctu.mrc.ac.uk>

ROR

<https://ror.org/03x94j517>

Funder(s)**Funder type**

Industry

Funder Name

Merck KGaA (Germany)

Funder Name

Baxter Healthcare (UK)

Funder Name

Wyeth (UK)

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

Not provided at time of registration

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/05/2014		Yes	No
Plain English results			04/04/2022	No	Yes