

Multicentre international study of capecitabine ± bevacizumab as adjuvant treatment of colorectal cancer

Submission date 01/12/2003	Recruitment status No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 10/12/2003	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 02/09/2022	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-capecitabine-with-or-without-bevacizumab-for-colorectal-cancer>

Contact information

Type(s)

Scientific

Contact name

Prof David J Kerr

Contact details

QUASAR 2
Oncology Clinical Trials Office (OCTO)
Department of Clinical Pharmacology
Old Road Campus Research Building
University of Oxford
Old Road Campus
off Roosevelt Drive
Headington
Oxford
United Kingdom
OX3 7DQ
+44 (0)1865 617021
quasar2@octo-oxford.org.uk

Additional identifiers

Protocol serial number

N/A

Study information

Scientific Title

Multicentre international study of capecitabine ± bevacizumab as adjuvant treatment of colorectal cancer

Acronym

QUASAR 2

Study objectives

Study hypothesis added as of 18/07/2007:

Treatment with a combination of capecitabine plus bevacizumab results in better disease-free survival (DFS) than treatment with capecitabine alone.

Please note that the trial title provided at time of registration was "QUASAR 2 Multicentre international study of capecitabine +/- bevacizumab as adjuvant treatment of colon cancer". The current trial title was added as of 02/07/2007.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Metropolitan Multi-centre Research Ethics Committee, 03/09/2004, ref: 04/MRE11/18

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Colorectal cancer

Interventions

Randomised to:

Arm A (standard arm)

Capecitabine 1250 mg/m², twice daily 12 hours apart (total daily dose 2500 mg/m²) for 14 days (max 2500 mg twice a day [bd] [total daily dose 5000 mg]).

Treatment is repeated every 3 weeks for a total of eight cycles (24 weeks). One cycle = 3 weeks.

Arm B (experimental arm)

Capecitabine 1250 mg/m² twice daily, 12 hours apart (total daily dose 2500 mg/m²) for 14 days (max 2500 mg twice daily [max total daily dose 5000 mg]). Treatment is repeated every 3 weeks for a total of eight cycles (24 weeks). One cycle = 3 weeks.

Bevacizumab 7.5 mg/kg will be administered initially over a 90 (±15) minute period on day 1. The

infusion will be repeated every 3 weeks for a total of 16 cycles (48 weeks). One cycle = three weeks.

Intervention Type

Drug

Phase

Phase III

Drug/device/biological/vaccine name(s)

Capecitabine, bevacizumab

Primary outcome(s)

Primary outcome measure added as of 28/06/2007:
Disease-free survival at 3 years.

Key secondary outcome(s)

Secondary outcome measures added as of 28/06/2007:

1. Disease-free survival for stage III patients at 3 years
2. Overall survival at 5 years
3. Side effect profiles
4. Translational science

Completion date

31/12/2011

Eligibility

Key inclusion criteria

Inclusion criteria amended as of 02/07/2007:

1. Histologically proven stage III (stage T2, T3 or T4) and stage II (any one or more of the following - stage T4, lymphatic invasion, vascular invasion, peritoneal involvement, poor differentiation) colorectal cancer (expected ratio 70% : 30%). N.B Patients can be Stage II, T3 as long as they have one of the other poor prognostic features. For the purposes of stratification, rectal cancers will be anything below the peritoneal reflection.
2. Patients must have undergone complete resection of the primary tumour without evidence of residual disease.
3. Patients must be randomised to start treatment a minimum of 28 days and maximum of 70 days* after surgery (If a subject has had a major surgical procedure, open biopsy, or significant traumatic injury within 28 days prior to study treatment start, or there is the anticipated need for major surgical procedure during the course of the study they are not eligible).
4. World Health Organization Performance Status 0 or 1.
5. Male or female outpatients age 18 years.
6. Written informed consent given.
7. Life expectancy of greater than or equal to 5 years, in terms of non-cancer-related morbidity.

*Calculation of these dates is based on date of surgery being day 1.

Inclusion criteria provided at time of registration:

1. Histologically proven stage III and high risk stage II (any of the following - stage T4, or lymphatic invasion, vascular invasion, peritoneal involvement) colon cancer (expected ratio 70%:

30%)

2. Patients must have undergone complete resection of the primary tumour without evidence of residual disease
3. Patients must be randomised to start treatment a minimum of 28 days and maximum of 70 days after surgery. (If a subject has had a major surgical procedure, open biopsy, or significant traumatic injury within 28 days prior to study treatment start, or there is the anticipated need for major surgical procedure during the course of the study they are not eligible).
4. World Health Organisation (WHO) Performance Status 0 or 1
5. Male or female outpatients age ≥ 18 years
6. Written informed consent given
7. Life expectancy of ≥ 5 years

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Total final enrolment

1952

Key exclusion criteria

Exclusion criteria amended as of 02/07/2007:

1. Previous chemotherapy, immunotherapy or infra-diaphragmatic radiotherapy.
2. Received any investigational drug or agent/procedure (i.e. participation in another treatment trial) within 4 weeks of randomisation.
3. Moderate or severe renal impairment (creatinine clearance < 30 ml/min [calculated according to Cockcroft-Gault formula]).
4. Any of the following laboratory values (tests must not have been carried out more than 2 weeks prior to randomisation):
 - a. Absolute Neutrophil Count (ANC) $< 1.5 \times 10^9/L$
 - b. Platelet count $< 100 \times 10^9/L$
 - c. Total bilirubin > 1.5 Upper Limit of Normal (ULN)
 - d. Alanine Aminotransferase (ALT), Aspartate Aminotransferase (AST) $> 2.5 \times$ ULN
 - e. Alkaline phosphatase $> 2.5 \times$ ULN
5. Patients requiring chronic use of full dose oral or parenteral anticoagulants, high dose aspirin (> 325 mg/day), anti-platelet drugs or known bleeding diathesis. Low dose aspirin is allowed.
6. Proteinuria > 500 mg/24 hours.
7. Known coagulopathy.
8. Clinically significant cardiovascular disease (i.e. active; or < 12 months since e.g. cerebrovascular accident, myocardial infarction, unstable angina, New York Heart Association (NYHA) grade II or greater congestive heart failure, serious cardiac arrhythmia requiring

medication; or uncontrolled hypertension).

9. Concomitant treatment with sorivudine or its chemically related analogues such as brivudine.

10. Pregnant (positive pregnancy test within 7 days of starting treatment), or lactating women.

11. Sexually active patients of child bearing potential not using adequate contraception (male and female)**.

12. Previous malignancies other than adequately treated in situ carcinoma of the uterine cervix or basal or squamous cell carcinoma of the skin, unless there has been a disease free interval of at least 10 years.

13. Lack of physical integrity of the upper gastrointestinal tract, malabsorption syndrome or inability to take oral medication.

14. Chronic inflammatory bowel disease and/or bowel obstruction and/or active peptic ulcer.

15. History of uncontrolled seizures, central nervous system disorders or psychiatric disability judged by the investigator to be clinically significant precluding informed consent or interfering with compliance for oral drug intake.

16. Patients with known allergy to Chinese hamster ovary cell proteins or other recombinant human or humanized antibodies or to any excipients of bevacizumab formulation; or to any other study drugs.

** Women of childbearing potential randomised to receive bevacizumab are required to have a serum pregnancy test at baseline (i.e. prior to starting treatment). Postmenopausal women must have been amenorrhic for at least 12 months to be considered of non-childbearing potential.

Exclusion criteria provided at time of registration:

1. Previous chemotherapy or immunotherapy

2. Received any investigational drug or agent/procedure i.e. participation in another treatment trial within four weeks of randomisation

3. Moderate or severe renal impairment (creatinine clearance ≤ 30 ml/min [calculated according to Cockcroft-Gault formula])

4. Any of the following laboratory values (tests should not have been carried out more than two weeks prior to randomisation):

4.1. Absolute neutrophil count (ANC) $< 1.5 \times 10^9/l$

4.2. Platelet count $< 100 \times 10^9/l$

4.3. Total bilirubin > 1.5 Upper Limit of Normal (ULN)

4.4. Alanine aminotransferase (ALT), aspartate aminotransferase (AST) $> 2.5 \times$ ULN

4.5. Alkaline phosphatase $> 2.5 \times$ ULN

5. Subjects requiring chronic use of full dose oral or parenteral anticoagulants, high dose aspirin (> 325 mg/day), anti-platelet drugs or known bleeding diathesis. Low dose aspirin is allowed.

6. Proteinuria > 500 mg/24 hours

7. Known coagulopathy

8. Clinically significant cardiovascular disease (i.e. active; or < 12 months since e.g. cerebrovascular accident, myocardial infarction, unstable angina, New York Heart Association [NYHA] grade II or greater congestive heart failure, serious cardiac arrhythmia requiring medication; or uncontrolled hypertension)

9. Concomitant treatment with sorivudine or its chemically related analogues such as brivudine

10. Pregnant (positive pregnancy test within seven days of starting treatment), or lactating women

11. Sexually active patients of child bearing potential not using adequate contraception (male and female)

12. Previous malignancies other than adequately treated in situ carcinoma of the uterine cervix or basal or squamous cell carcinoma of the skin, unless there has been a disease-free interval of at least ten years

13. Lack of physical integrity of the upper gastrointestinal tract, malabsorption syndrome or

inability to take oral medication

14. Chronic inflammatory bowel disease and/or bowel obstruction and/or active peptic ulcer

15. History of uncontrolled seizures, central nervous system disorders or psychiatric disability judged by the investigator to be clinically significant precluding informed consent or interfering with compliance for oral drug intake

16. Known dihydropyrimidine dehydrogenase (DPD) deficiency

17. Patients with known allergy to Chinese hamster ovary cell proteins or other recombinant human or humanized antibodies or to any excipients of bevacizumab formulation; or to any other study drugs

18. Women of childbearing potential randomised to receive bevacizumab are required to have a serum pregnancy test at baseline (i.e. prior to starting treatment). Postmenopausal women must have been amenorrhic for at least 12 months to be considered of non-childbearing potential.

Date of first enrolment

01/07/2005

Date of final enrolment

31/12/2011

Locations

Countries of recruitment

United Kingdom

England

Study participating centre

University of Oxford

Oxford

United Kingdom

OX3 7DQ

Sponsor information

Organisation

University of Oxford (UK)

ROR

<https://ror.org/052gg0110>

Funder(s)

Funder type

Industry

Funder Name

Hoffman La Roche Inc. (ref: MO17092) (International)

Results and Publications

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	01/11/2016		Yes	No
Plain English results			02/09/2022	No	Yes