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

Submission date	Recruitment status No longer recruiting	[X] Prospectively registered		
01/12/2003		☐ Protocol		
Registration date	Overall study status	Statistical analysis plan		
10/12/2003	Completed	[X] Results		
Last Edited	Condition category	Individual participant data		
02/09/2022	Cancer			

### 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

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### Contact details

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## Additional identifiers

### Protocol serial number

# 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/m<sup>2</sup>, twice daily 12 hours apart (total daily dose 2500 mg/m<sup>2</sup>) 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/m $^2$  twice daily, 12 hours apart (total daily dose 2500 mg/m $^2$ ) 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 ( $\pm$ 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.

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%:

<sup>\*</sup>Calculation of these dates is based on date of surgery being day 1.

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 Cockroft-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)  $< 1.5 \times 109/L$
- b. Platelet count < 100 x 109/L
- c. Total bilirubin > 1.5 Upper Limit of Normal (ULN)
- d. Alanine Aminotransferase (ALT), Aspartate Aminotransferase (AST) > 2.5 x ULN
- e. Alkaline phosphatase > 2.5 x 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 amenorrheic 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 Cockroft-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 x 10^9/l
- 4.2. Platelet count <100 x 10^9/l
- 4.3. Total bilirubin >1.5 Upper Limit of Normal (ULN)
- 4.4. Alanine aminotransferase (ALT), aspartate aminotransferase (AST) >2.5 x ULN
- 4.5. Alkaline phosphatase >2.5 x 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 amenorrheic 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
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
Plain English results			02/09/2022	No	Yes