

BILCAP: A research trial evaluating chemotherapy in patients following surgery for biliary tract cancer

Submission date 13/09/2005	Recruitment status No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 17/11/2005	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 13/04/2022	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-capecitabine-after-surgery-for-cancer-of-the-bile-duct-or-gallbladder>

Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

Clinical Trials Information System (CTIS)

2005-003318-13

ClinicalTrials.gov (NCT)

NCT00363584

Protocol serial number

HE3002

Study information

Scientific Title

A randomised clinical trial evaluating adjuvant chemotherapy with capecitabine compared to expectant treatment alone (observation), following surgical resection of a biliary tract tumour

Acronym

BILCAP

Study objectives

To evaluate adjuvant chemotherapy with capecitabine in patients who have undergone complete macroscopic resection of a biliary tract cancer. The primary objective is to determine 2-year survival in patients treated with capecitabine compared to those undergoing observation. The secondary objectives are to compare 5-year survival, relapse-free interval, toxicity, quality of life and healthcare economics.

On 09/02/10 the inclusion and exclusion criteria for this trial were updated. Please see the relevant field for more details. Please also note that the anticipated end date of this trial was extended from 01/10/2008 to 01/03/2011.

Ethics approval required

Old ethics approval format

Ethics approval(s)

West Midlands Ethics Committee, 04/10/2005, ref: 05/MRE07/62

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Biliary tract cancer

Interventions

Current interventions as of 24/03/2017:

This is a multicentre, prospective, randomised phase III trial of patients who have undergone a macroscopically complete surgical resection of a biliary tract cancer. Those patients who fulfil the inclusion criteria are stratified by surgical centre, tumour site (hilar/extrahepatic cholangiocarcinoma, intrahepatic cholangiocarcinoma, lower common bile duct cholangiocarcinoma and gall bladder carcinoma), and by the type of resection (RO/R1) and performance status (ECOG PS 0,1,2), and randomised to either:

Treatment arm: Capecitabine 1250 mg/m² given post-operatively twice a day on day 1 to 14 of a 3 weekly cycle for 24 weeks (8 cycles).

Control arm: No scheduled post-operative chemotherapy.

A total of 447 patients who have undergone a macroscopically complete surgical resection of a biliary tract cancer will be randomised equally into each arm of the study, and will be followed-up for 5 years.

Previous interventions:

A randomised phase III study of adjuvant chemotherapy with capecitabine compared to expectant treatment alone (observation) in patients following surgical resection of a biliary tract tumour.

Intervention Type

Drug

Phase

Phase III

Drug/device/biological/vaccine name(s)

Capecitabine

Primary outcome(s)

2-year survival

Key secondary outcome(s)

Current secondary outcome measures as of 24/03/2017:

1. 5-year survival
2. Relapse is measured by 3 monthly follow up visits for 1st year, 6 monthly follow up visits for 2nd year and annual visits for up to 5 years from randomisation. 6 monthly CT scans (chest/abdo/pelvis) for first two years and then annually for up to 5 years from randomisation
3. Toxicity is measured on Day 1 of every treatment cycle and at the end of treatment (within 4 weeks of last treatment administered). Long-term toxicities are measured during follow up visits 3 monthly follow up visits for 1st year, 6 monthly follow up visits for 2nd year and annual visits for up to 5 years from randomisation
4. Quality of life is assessed using EORTC QoL questionnaire (QLQ-C30) version 3 with the EORTC QLQ-LMC21 site-specific add-on and EuroQoL (5 questions). QOL is measured at baseline, 3 monthly for the 1st year and 6 monthly for the 2nd year
5. Healthcare economics to assess the relative cost effectiveness of the treatment regimes (chemotherapy or observation) for the duration of treatment and for the first two years of follow-up, using the same sub-set of QoL patients. The collection of the data for the economic evaluation is collected by adding the health problems questionnaire (5 questions) -to the QOL booklet to ascertain the resource use.

Previous secondary outcome measures:

1. 5-year survival
2. Relapse
3. Toxicity
4. Quality of life
5. Healthcare economics

Completion date

31/12/2020

Eligibility

Key inclusion criteria

Current information as of 09/02/2010 (update to trial made in December 2008)

1. Patients with histologically confirmed biliary tract cancer (including intrahepatic cholangiocarcinoma, extrahepatic/hilar cholangiocarcinoma, muscle invasive gallbladder cancer or cancer of the distal bile duct) who have undergone a macroscopically complete resection with curative intent.
2. Eastern Cooperative Oncology Group (ECOG) Performance Status ≤ 2
3. Age > 18
4. Adequate renal function:
 - 4.1. Serum urea and serum creatinine < 1.5 times upper limit of normal (ULN)
 - 4.2. Calculated glomerular filtration rate (GFR) using Cockcroft-Gault ≤ 60 ml/min. If the calculated GFR is below 60 ml/min, isotope EDTA confirmation of adequate renal function (as detailed in the Summary of Product Characteristics [SPC] for capecitabine) is required
5. Adequate haematological function:
 - 5.1. Haemoglobin ≥ 10 g/dl
 - 5.2. WBC $\geq 3.0 \times 10^9/L$
 - 5.3. Absolute neutrophil count (ANC) $\geq 1.5 \times 10^9/L$
 - 5.4. Platelet count $\geq 100,000/mm^3$
6. Adequate liver function:
 - 6.1. Total bilirubin $\leq 3 \times$ ULN
 - 6.2. Alanine transaminase (ALT) or aspartate transaminase (AST) $\leq 5 \times$ ULN
 - 6.3. Adequate surgical biliary drainage with no evidence of infection
7. Not of childbearing potential OR must be using an approved method of contraception
8. Written informed consent
9. Able to start treatment within 12 weeks of surgery. If the treatment start date is >12 weeks, it will be necessary to contact the BILCAP Trial Office.

Current information as of 28/02/2008:

1. Age 18 or over
2. Histologically confirmed biliary tract cancer (including intrahepatic or extrahepatic cholangiocarcinoma or muscle-invasive gallbladder cancer) and undergone macroscopically complete resection with curative intent
3. No history of other malignant diseases (other than adequately treated non-melanotic skin cancer or in situ carcinoma of the uterine cervix)
4. Eastern Cooperative Oncology Group (ECOG) Performance Status 0-2
5. Adequate renal function (serum urea and serum creatinine less than 1.5 times upper limit of normal [ULN], glomerular filtration rate greater than/equal to 60 ml/min). If the calculated GFR is below 60 ml/min, isotope EDTA confirmation of adequate renal function (as detailed in the Summary of Product Characteristics [SPC] for capecitabine)
6. Adequate haematological function (haemoglobin =10 g/dl, white blood cells [WBC] = $3.0 \times 10^9/l$, absolute neutrophil count [ANC] = $1.5 \times 10^9/l$, platelet count = $100,000/mm^3$)
7. Adequate liver function (total bilirubin $\leq 3 \times$ ULN, alanine aminotransferase [ALT] or aspartate aminotransferase [AST] ≤ 5 times ULN, adequate surgical biliary drainage with no evidence of infection)
8. Not of childbearing potential OR must be using an approved method of contraception
9. Written informed consent

Information at time of registration:

1. Age 18 or over

2. Histologically confirmed biliary tract cancer (including intrahepatic or extrahepatic cholangiocarcinoma or muscle-invasive gallbladder cancer) and undergone macroscopically complete resection with curative intent
3. No history of other malignant diseases (other than adequately treated non-melanotic skin cancer or in situ carcinoma of the uterine cervix)
4. Eastern Cooperative Oncology Group (ECOG) Performance Status 0-2
5. Adequate renal function (serum urea and serum creatinine less than 1.5 times upper limit of normal [ULN], glomerular filtration rate greater than/equal to 60 ml/min)
6. Adequate haematological function (haemoglobin =10 g/dl, white blood cells [WBC] = 3.0×10^9 /l, absolute neutrophil count [ANC] = 1.5×10^9 /l, platelet count =100,000/mm³)
7. Adequate liver function (total bilirubin less than 50 µmol/l, alanine aminotransferase [ALT] or aspartate aminotransferase [AST] = 5 times ULN, adequate surgical biliary drainage with no evidence of infection)
8. Not of childbearing potential OR must be using an approved method of contraception
9. Written informed consent

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Total final enrolment

447

Key exclusion criteria

Current information as of 09/02/2010 (update to trial made in December 2008):

1. Pancreatic or ampullary cancer or mucosal gallbladder cancer
2. Incomplete recovery from previous surgery or unresolved biliary tree obstruction
3. Use of other investigational agents during the study treatment period, or within 4 weeks of planned entry to the study
4. History of other malignancy within 5 years of trial entry, except adequately treated cervical carcinoma-in-situ or non-melanotic skin cancer.
5. Any previous chemotherapy or radiotherapy, given for biliary tract cancer.
6. A serious co-existing medical condition likely to interfere with protocol treatment including a potential serious infection.
7. Evidence of significant clinical disorder or laboratory finding which, in the opinion of the investigator, makes it undesirable for the patient to participate in the trial

Information at time of registration:

1. Pancreatic or periampullary cancer or mucosal gallbladder cancer
2. Resection of tumour that involved the pancreas

3. Incomplete recovery from previous surgery or unresolved biliary tree obstruction
4. Use of other investigational agents during the study or within 4 weeks of planned entry to the study
5. Previous chemotherapy, radiotherapy, biological or hormone therapy given for biliary tract cancer
6. History of second malignancy within 5 years of trial entry, except non-melanotic skin cancer or in situ cervical carcinoma
7. A serious co-existing medical condition including a potential serious infection
8. Evidence of significant clinical disorder or laboratory finding which, in the opinion of the investigator, makes it undesirable for the patient to participate in the trial
9. Psychological, familial, sociological or geographical factors considered likely to prevent compliance with the protocol
10. Any other serious uncontrolled medical conditions
11. Pregnant or breastfeeding women

Date of first enrolment

10/07/2006

Date of final enrolment

04/12/2014

Locations

Countries of recruitment

United Kingdom

England

Scotland

Wales

Study participating centre

Southampton General Hospital (Lead Centre)

University Surgical Unit

Tremona Road

Southampton

United Kingdom

SO16 6YD

Study participating centre

Addenbrooke's Hospital

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CB2 0QQ

Study participating centre
Basildon & Thurrock University Hospital
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Study participating centre
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Study participating centre

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Study participating centre
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Study participating centre

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Study participating centre

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Study participating centre
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Sponsor information

Organisation
The University of Southampton

ROR
<https://ror.org/01ryk1543>

Funder(s)

Funder type
Charity

Funder Name
Cancer Research UK (CRUK) (UK) (Ref: C317/A4273)

Alternative Name(s)
CR_UK, Cancer Research UK - London, Cancer Research UK (CRUK), CRUK

Funding Body Type

Private sector organisation

Funding Body Subtype

Other non-profit organizations

Location

United Kingdom

Results and Publications

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are/will be available upon request from BILCAP@trials.bham.ac.uk

IPD sharing plan summary

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		25/03/2019	13/04/2022	Yes	No
Plain English results			08/08/2019	No	Yes
Study website	Study website	11/11/2025	11/11/2025	No	Yes