

# Clinical trial to identify biomarkers to select patients with esophageal cancer for oxaliplatin and 5-fluorouracil chemotherapy prior to surgery

<b>Submission date</b> 03/10/2017	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 12/10/2017	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 07/08/2018	<b>Condition category</b> Cancer	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims

At present, patients with cancer of the gullet (food pipe) are offered chemotherapy treatment before surgery, but there is no way of deciding in advance which patients are likely to gain the most benefit from chemotherapy and which patients are less likely to benefit from chemotherapy. The aim of this study is to assess the changes in DNA and proteins in the cancer that occur as a result of chemotherapy.

### Who can participate?

Patients aged 18 and over with cancer of the gullet

### What does the study involve?

All patients receive two cycles of chemotherapy given 3 weeks apart. Tissue is taken from the cancer before and 4-6 weeks after the last dose of chemotherapy to assess DNA repair gene activity. The patients' clinical outcomes (disease-free and overall survival) are assessed at 6-12 months after chemotherapy.

### What are the possible benefits and risks of participating?

This study will allow researchers to understand better which types of tumour respond best to this type of chemotherapy and how the tumour changed during treatment.

### Where is the study run from?

Oxford University Hospital NHS Trust (UK)

### When is the study starting and how long is it expected to run for?

January 2006 to November 2010

### Who is funding the study?

1. Wellcome Trust (UK)

2. NIHR Biomedical Research Centre Oxford (UK)
3. Oxford University Clinical Academic Graduate School (UK)
4. NIHR University College Hospitals Biomedical Research Centre (UK)
5. Cancer Research UK Experimental Cancer Medicine Centre (UK)

Who is the main contact?

Dr Mark Middleton

## Contact information

### Type(s)

Scientific

### Contact name

Dr Mark Middleton

### Contact details

Department of Oncology

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## Additional identifiers

### Clinical Trials Information System (CTIS)

2005-000834-34

### Protocol serial number

Version 2.1 20.10.05

## Study information

### Scientific Title

Phase II trial of neo-adjuvant Oxaliplatin and 5-fluorouracil in esophageal cancer

### Study objectives

DNA damage repair gene expression in tumours can predict clinical outcomes following chemotherapy and surgery.

### Ethics approval required

Old ethics approval format

### Ethics approval(s)

Oxfordshire Regional Ethics Committee, 05/03/2006

### Study design

Non-randomized phase 2 clinical trial

### **Primary study design**

Interventional

### **Study type(s)**

Treatment

### **Health condition(s) or problem(s) studied**

Esophageal cancer

### **Interventions**

All patients received Oxaliplatin 130 mg/m<sup>2</sup> IV on day 1, followed by 5FU 1gm/m<sup>2</sup> per day on days 1-4. Two cycles given 3 weeks apart. Follow-up was for 6 months after the last cycle of chemotherapy.

### **Intervention Type**

Drug

### **Phase**

Phase II

### **Drug/device/biological/vaccine name(s)**

Oxaliplatin, 5-fluorouracil

### **Primary outcome(s)**

1. DNA repair gene expression in tumour tissue, measured using microarray at baseline and 4-6 weeks after the last dose of chemotherapy.
2. Clinical outcomes, measured using disease-free survival and overall survival at 6-12 months post chemotherapy

### **Key secondary outcome(s)**

Haplotype and DNA repair gene pathways measured using immunohistochemistry at baseline and 4-6 weeks after the last dose of chemotherapy

### **Completion date**

30/11/2010

## **Eligibility**

### **Key inclusion criteria**

1. Histologically proven operable oesophageal adenocarcinoma/squamous cell carcinoma
2. Age greater than or equal to 18 years
3. Suitable for neo-adjuvant chemotherapy according to local protocols
4. Subjects must be free of any clinically significant disease other than oesophageal cancer that would interfere with the study evaluations
5. Adequate haematologic, renal and hepatic function as demonstrated by laboratory values performed within 14 days prior to the administration of chemotherapy:
  - 5.1. Absolute neutrophil count (ANC)  $\geq$  1500/mm<sup>3</sup>
  - 5.2. Platelet count  $\geq$  100,000/ mm<sup>3</sup>

- 5.3. Haemoglobin  $\geq$  10g/dL
- 5.4. Urea and serum creatinine < 1.5 times upper limit of laboratory normal (ULN)
- 5.5. Creatinine clearance: more than 50ml (by Cockcroft Gault calc)
- 5.6. Total bilirubin < 1.5 times ULN
- 5.7. AST  $\leq$  3 times ULN
- 5.8. Alkaline phosphatase < 2 times ULN
- 6. Patients must have given written informed consent
- 7. Women of child-bearing potential must use an acceptable method of birth control during the study

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

All

**Key exclusion criteria**

1. Women who are pregnant or nursing (pregnancy test to be performed within 24 hours prior to starting the study drug(s))
2. Known dihydropyrimidine dehydrogenase deficiency
3. Subjects known to be HIV, Hep B or Hep C positive

**Date of first enrolment**

01/05/2006

**Date of final enrolment**

01/02/2010

**Locations****Countries of recruitment**

United Kingdom

England

**Study participating centre**

Oxford University Hospital NHS Trust

United Kingdom

OX3 7LE

# Sponsor information

## Organisation

Churchill Hospital

## ROR

<https://ror.org/009vheq40>

## Funder(s)

### Funder type

Research organisation

### Funder Name

Wellcome Trust

### Alternative Name(s)

### Funding Body Type

Private sector organisation

### Funding Body Subtype

International organizations

### Location

United Kingdom

### Funder Name

NIHR Biomedical Research Centre Oxford

### Funder Name

Oxford University Clinical Academic Graduate School

### Funder Name

NIHR University College Hospitals Biomedical Research Centre

## Funder Name

Cancer Research UK Experimental Cancer Medicine Centre

## Results and Publications

### Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study have been archived and are no longer available.

### IPD sharing plan summary

Not expected to be made available

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>	results	05/04/2016		Yes	No
<a href="#">Results article</a>	results	08/05/2018		Yes	No