# Multicentre randomised trial of High dose versus Low dose radioiodine, with or without recombinant human thyroid stimulating hormone, for remnant ablation following surgery for differentiated thyroid cancer

Submission date 14/06/2006	<b>Recruitment status</b> No longer recruiting	[X] Prospectively registered		
		Protocol		
Registration date 11/09/2006	Overall study status Completed	Statistical analysis plan		
		[X] Results		
<b>Last Edited</b> 19/10/2018	<b>Condition category</b> Cancer	Individual participant data		

## Plain English summary of protocol

http://cancerhelp.cancerresearchuk.org/trials/a-trial-looking-at-radioactive-iodine-treatment-for-thyroid-cancer

# **Contact information**

# Type(s)

Scientific

#### Contact name

Mr Pablo Alvarez

#### Contact details

Cancer Research UK & UCL Cancer Trials Centre 90 Tottenham Court Road London United Kingdom W1T 4TJ

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pa@ctc.ucl.ac.uk

# Additional identifiers

Clinical Trials Information System (CTIS)

2005-003687-37

## ClinicalTrials.gov (NCT)

NCT00415233

## Protocol serial number

BRD/05/83

# Study information

#### Scientific Title

Multicentre randomised trial of High dose versus Low dose radioiodine, with or without recombinant human thyroid stimulating hormone, for remnant ablation following surgery for differentiated thyroid cancer

## Acronym

HiLo

## **Study objectives**

- 1. To examine whether a low administrative dose (1.1 GBq) of radioiodine has a similar remnant ablation success rate as a high dose (3.7 GBq)
- 2. To examine whether patients given recombinant human Thyroid Stimulating Hormone (rhTSH) have a similar ablation success rate to those who discontinue thyroid hormone replacement

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Cambridgeshire 4 Research Ethics Committee, 14/07/2006, ref: 06/MRE05/39

## Study design

Factorial randomised trial (a trial of equivalence)

## Primary study design

Interventional

## Study type(s)

Treatment

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

Differentiated thyroid cancer

#### **Interventions**

Following surgery, eligible patients will be approached for consent. Those who agree will be randomised to one of the following groups:

Group A: rhTSH followed by 1.1 GBq of radioiodine ablation

Group B: rhTSH followed by 3.7 GBq of radioiodine ablation

Group C: Hormone withdrawal (i.e., no rhTSH) followed by 1.1 GBq of radioiodine ablation

Group D: Hormone withdrawal (i.e., no rhTSH) followed by 3.7 GBq of radioiodine ablation

## Intervention Type

Mixed

## Primary outcome(s)

The percentage of patients who have a successful remnant ablation six to eight months after radioiodine administration

## Key secondary outcome(s))

- 1. Quality of life during treatment period
- 2. Loco-regional recurrence
- 3. Distant metastases

## Long term outcomes:

1. Survival and incidence of secondary primary malignancies

## Completion date

01/09/2010

# Eligibility

## Key inclusion criteria

- 1. Histological confirmation of differentiated thyroid carcinoma
- 2. Patients with tumour stage pT1-T3; NX, N0 or N1; M0 (TNM Classification of Malignant Tumours 6th edition 2002)
- 3. Patients who have undergone total thyroidectomy with or without lymph node dissection
- 4. Patients who require radioiodine ablation
- 5. Aged 16 to 80 years
- 6. World Health Organization (WHO) performance status zero to two (self caring)
- 7. All known tumour resected (R0)

## Participant type(s)

Patient

## Healthy volunteers allowed

No

## Age group

Adult

#### Sex

All

## Key exclusion criteria

- 1. Hurthle cell carcinoma and aggressive variants including tall cell, insular, poorly differentiated, diffuse sclerosing and widely invasive subtypes; anaplastic and medullary carcinoma
- 2. Patients who have a contrast Computed Tomography (CT) scan up to three months before ablation
- 3. Patients for whom rhTSH requirement is mandatory
- 4. Patients who have severe co-morbid conditions (e.g., unstable angina, recent heart attack or stroke, severe labile hypertension, dementia, on dialysis, with tracheostomy needing care, learning difficulties and anybody who may not be able to comply with radiation protection issues or need frequent nursing/medical supervision which puts staff at risk of unacceptable radiation exposure)

- 5. Other cancers excluding basal cell carcinoma of the skin or in situ carcinoma of the cervix
- 6. Pregnant women or women who are breastfeeding
- 7. Patients with stage pT4 or M1 (if detected clinically or by other investigations)
- 8. Previous 131I or 123I pre-ablation scan
- 9. Previous treatment for thyroid cancer (except surgery)

#### Date of first enrolment

01/01/2007

## Date of final enrolment

31/07/2010

## Locations

## Countries of recruitment

**United Kingdom** 

England

Study participating centre
Cancer Research UK & UCL Cancer Trials Centre
London

United Kingdom W1T 4TJ

# **Sponsor information**

## Organisation

University College London (UK)

#### ROR

https://ror.org/02jx3x895

# Funder(s)

## Funder type

Research organisation

## **Funder Name**

Cancer Research UK (CRUK) (UK) - Clinical Trials Advisory and Awards Committee (CTAAC)

# **Results and Publications**

# Individual participant data (IPD) sharing plan

# 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	03/05/2012		Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
Plain English results				No	Yes