# [18F]-tetrafluoroborate in patients with primary thyroid cancer or salivary cancer

Submission date	Recruitment status No longer recruiting	<ul><li>Prospectively registered</li></ul>		
19/11/2015		Protocol		
Registration date	Overall study status Completed	Statistical analysis plan		
20/11/2015		[X] Results		
Last Edited	Condition category	Individual participant data		
26/10/2022	Cancer			

#### Plain English summary of protocol

https://www.cancerresearchuk.org/about-cancer/find-a-clinical-trial/a-study-using-pet-ct-scans-to-detect-thyroid-cancer-and-salivary-gland-cancer

## Contact information

#### Type(s)

Scientific

#### Contact name

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#### Contact details

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#### Additional identifiers

Clinical Trials Information System (CTIS)

2014-001925-33

Protocol serial number

19094

# Study information

#### Scientific Title

A phase I trial of [18F]-tetrafluoroborate in patients with primary thyroid cancer or salivary cancer to study biodistribution and uptake in tumours and normal NIS expressing tissue

#### Acronym

BF4

#### Study objectives

The aim of this study is to investigate whether tetrafluoroborate has any side effects and if it specifically targets cancers that express the hNIS transporter.

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

London - Surrey Borders Research Ethics Committee, 29/12/2014, ref: 14/LO/1247

#### Study design

Non-randomised; Interventional; Design type: Not specified

#### Primary study design

Interventional

#### Study type(s)

Treatment

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

Topic: Cancer; Subtopic: Head and Neck Cancer; Disease: Head and Neck

#### **Interventions**

Cannula inserted into each arm for the administration of the radioactive material and the taking of blood samples.

#### **Intervention Type**

Drug

#### Phase

Phase I

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

Tetrafluoroborate

#### Primary outcome(s)

To assess the biodistribution of [18F]tetrafluoroborate in vivo

#### Key secondary outcome(s))

Not provided at time of registration

#### Completion date

02/08/2017

# Eligibility

#### Key inclusion criteria

- 1. Aged 18-80 years
- 2. Women of childbearing potential must have documented negative pregnancy test on day 1, prior to (18F)BF4-administration
- 3. Diagnosis of a malignancy of the thyroid or a malignancy of a salivary gland
- 4. All patients have to be suitable for surgical treatment as part of their normal management
- 5. Able to comply with treatment plans, scheduled visits, all study PET imaging and follow-up
- 6. Willing to give informed consent
- 7. Not be taking thyroid mediciation or iodine containing medication

#### Participant type(s)

Patient

#### Healthy volunteers allowed

No

#### Age group

Adult

#### Lower age limit

18 years

#### Upper age limit

80 years

#### Sex

ΔII

#### Total final enrolment

5

#### Key exclusion criteria

- 1. Previous ionising radiation exposure for research purposes or exposure to any previous experimental medicine that might affect the uptake of BF4 would exclude the patient from this ionising radiation study
- 2. Patients without adequate understanding of written or spoken English would not be able to participate in this study as translation of the patient information sheet will not be possible
- 3. Any prior treatment for the thyroid or salivary gland tumours
- 4. Pregnancy or lactation
- 5. Any other problems that may make the patient unable to tolerate the PET scans or translational biopsies
- 6. Ingestion of iodine containing medication (eg amiodarone) within preceding 12 months, administration of iv contrast media within 6 months or thyroid hormones within 2 months

#### Date of first enrolment

14/09/2015

#### Date of final enrolment

### Locations

#### Countries of recruitment

United Kingdom

England

# Study participating centre St Thomas' Hospital

The Rayne Institute
4th Floor Lambeth Wing
Westminster Bridge Road
London
United Kingdom
SE1 7EH

# Sponsor information

#### Organisation

King's College London

#### **ROR**

https://ror.org/0220mzb33

# Funder(s)

#### Funder type

University/education

#### **Funder Name**

King's Health Partners

# **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	06/04/2017	07/08/2020	Yes	No
HRA research summary			28/06/2023		No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
Plain English results		26/07/2021	29/07/2021	No	Yes