

Variation of radiotherapy target volume definition, dose to organs at risk (OAR) and clinical target volumes using anatomic (CT) versus combined anatomic and molecular imaging (PET-CT): Intensity Modulated Radiotherapy delivered using a Tomotherapy Hi Art machine

Submission date 29/04/2010	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 29/04/2010	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 12/12/2017	Condition category Cancer	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

<http://cancerhelp.cancerresearchuk.org/trials/a-study-see-pet-scans-help-improve-radiotherapy-treatment-planning-oropharyngeal-cancer-vortigern>

Contact information

Type(s)

Scientific

Contact name

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Contact details

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

7341

Study information

Scientific Title

Variation of radiotherapy target volume definition, dose to organs at risk (OAR) and clinical target volumes using anatomic (CT) versus combined anatomic and molecular imaging (PET-CT): Intensity Modulated Radiotherapy delivered using a Tomotherapy Hi Art machine

Acronym

VortigERn

Study objectives

30 patients with head and neck cancer who are being treated with intensity modulated radiotherapy (IMRT) will be recruited in the study. Patients willing to give consent to participate will be asked to have a contrast enhanced positron emission tomography - computed tomography (PET-CT) scan. The CT scan data will then be used to define the CTV1 and CTV2 for IMRT treatment (as per agreed protocol) as standard. A computer based IMRT plan will be generated for optimal treatment of the patient using the CT information only. The patient will be treated on the basis of this.

Ethics approval required

Old ethics approval format

Ethics approval(s)

MREC approved on the 20/10/2008 (ref: 08/H0907/127)

Study design

Non-randomised interventional treatment trial

Primary study design

Interventional

Secondary study design

Non randomised controlled trial

Study setting(s)

GP practice

Study type(s)

Treatment

Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

Health condition(s) or problem(s) studied

Topic: National Cancer Research Network; Subtopic: All Cancers/Misc Sites; Disease: Unknown
Primary Site

Interventions

Standard pre-radiotherapy planning imaging is with a contrast enhanced CT scan. In the study all patients were required to have a 18 FDG PET-CT scan in the treatment position.

Study entry: registration only

Intervention Type

Other

Phase

Not Specified

Primary outcome measure

To explore if the FDG PET CT based radiotherapy target volumes are different to that of CT scan

Secondary outcome measures

Feasibility of dose escalation in tumour volumes in oropharyngeal SCC.

Overall study start date

01/05/2009

Completion date

02/03/2010

Eligibility**Key inclusion criteria**

1. Tumours of oropharynx area in the head and neck
2. Have involved or uninvolved neck nodes
3. Being treated with tomotherapy IMRT
4. Either sex

Participant type(s)

Patient

Age group

Not Specified

Sex

Both

Target number of participants

Planned Sample Size: 30

Key exclusion criteria

Not provided at time of registration

Date of first enrolment

01/05/2009

Date of final enrolment

02/03/2010

Locations

Countries of recruitment

England

United Kingdom

Study participating centre

Northern Centre for Cancer Care

Newcastle upon Tyne

United Kingdom

NE7 7DN

Sponsor information

Organisation

Newcastle Hospitals NHS Foundation Trust (UK)

Sponsor details

Freeman Hospital

Freeman Road

High Heaton

Newcastle upon Tyne

England

United Kingdom

NE7 7DN

Sponsor type

Hospital/treatment centre

Website

<http://www.newcastle-hospitals.org.uk/>

ROR

<https://ror.org/05p40t847>

Funder(s)

Funder type

Research organisation

Funder Name

Royal College of Radiologists (UK)

Alternative Name(s)

The Royal College of Radiologists, RCR

Funding Body Type

Private sector organisation

Funding Body Subtype

Associations and societies (private and public)

Location

United Kingdom

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

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	01/12/2012		Yes	No