

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

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| 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

Protocol serial number

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

Study type(s)

Treatment

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(s)

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

Key secondary outcome(s)

Feasibility of dose escalation in tumour volumes in oropharyngeal SCC.

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

Healthy volunteers allowed

No

Age group

Not Specified

Sex

All

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

United Kingdom

England

Study participating centre
Northern Centre for Cancer Care
Newcastle upon Tyne
United Kingdom
NE7 7DN

Sponsor information

Organisation
Newcastle Hospitals NHS Foundation Trust (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

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 |
| Participant information sheet | Participant information sheet | 11/11/2025 | 11/11/2025 | No | Yes |