

Radiation versus observation following surgical resection of atypical meningioma

Submission date 19/05/2014	Recruitment status No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
Registration date 19/05/2014	Overall study status Ongoing	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
Last Edited 26/07/2022	Condition category Cancer	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

Plain English summary of protocol

<https://www.cancerresearchuk.org/about-cancer/find-a-clinical-trial/a-trial-of-radiotherapy-after-surgery-for-a-type-of-brain-tumour-called-meningioma-roam-eortc-1308>

Study website

<http://www.roam-trial.org.uk/>

Contact information

Type(s)

Scientific

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Type(s)

Public

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

HTA 12/173/14

Study information

Scientific Title

Radiation versus Observation following surgical resection of Atypical Meningioma: a randomised controlled trial (the ROAM trial)

Acronym

ROAM

Study objectives

Current hypothesis as of 03/05/2017:

To determine whether early adjuvant fractionated radiotherapy reduces the risk of tumour recurrence or death due to any cause compared to active monitoring in newly diagnosed atypical meningioma.

Previous hypothesis:

To determine whether early adjuvant fractionated external beam radiotherapy reduces the risk of tumour recurrence compared to active monitoring in newly diagnosed atypical meningioma.

Ethics approval required

Old ethics approval format

Ethics approval(s)

NRES Committee North East - Newcastle & North Tyneside 2, 12/02/2015, ref: 15/NE/0013

Study design

Two-arm multi-centre randomised controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

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

Health condition(s) or problem(s) studied

Atypical meningioma

Interventions

The trial will randomise patients who have undergone gross total surgical resection of atypical (grade II) meningioma in a 1:1 ratio to either early radiotherapy (intervention) or active monitoring (comparator). Web-based randomisation will be used in this trial. Patients will be followed up for 60 months post randomisation by collecting information on signs/symptoms of tumour recurrence, 6 monthly MRI, recording of adverse events, quality of life questionnaires and cognitive function tests.

Intervention Type

Device

Phase

Phase III

Primary outcome measure

Current primary outcome measure as of 05/04/2019:

Time to MRI evidence of tumour recurrence or death due to any cause (disease free survival [DFS]). (DFS will be counted from the date of surgery until the date of MRI evidence of tumour recurrence or death due to any cause. Only clear dural thickening as identified by the investigator is to be considered tumour.)

Previous primary outcome measure:

Time to MRI evidence of tumour recurrence [disease free survival (DFS)] is assessed at baseline, 6 and 12 months following surgery and annually thereafter for a minimum of 5 years post-surgery.

Secondary outcome measures

Current secondary outcome measures as of 05/04/2019:

1. Toxicity of radiotherapy assessed by CTCAE (Common Terminology Criteria for Adverse Events)
2. Quality of life

3. Neurocognitive function (UK sites only)
4. Time to second line (salvage) treatment (surgery, radiotherapy, radiosurgery)
5. Time to death (overall survival [OS])
6. Health economic analysis (incremental cost per QALY gained) (UK sites only)

Previous secondary outcome measures:

1. Time to second line (salvage) treatment (surgery, radiotherapy, radiosurgery)
2. Time to death [overall survival (OS)]
3. Toxicity assessed by Common Terminology Criteria for Adverse Events (CTCAE)
4. Quality of life is measured using the EORTC C30 and BN20 questionnaires
5. Neurocognitive function is measured using patient testing at baseline and 24 months
6. Health economic analysis (incremental cost per QALY gained) (UK sites only)

Patients will be assessed at baseline, 6 and 12 months following surgery and annually thereafter for a minimum of 5 years post-surgery unless otherwise stated.

Overall study start date

01/09/2014

Completion date

31/03/2026

Eligibility

Key inclusion criteria

Current inclusion criteria as of 03/05/2017:

1. Histologically confirmed newly diagnosed solitary atypical meningioma (WHO grade II) based on the 2016 WHO criteria
2. Age \geq 16 years
3. All anatomical locations allowed except optic nerve sheath tumour
4. Complete resection (Simpson 1, 2 or 3) as assessed by the surgeon
5. Able to commence radiotherapy between within 12 weeks of surgery (ideally 8-12 weeks)
6. WHO performance status 0, 1 or 2
7. Women of reproductive potential must use effective contraception for the whole duration of the treatment
8. Absence of any psychological, familial, sociological or geographical condition potentially hampering compliance with the study protocol and follow-up schedule; those conditions should be discussed with the patient before registration in the trial

Previous inclusion criteria:

1. Histologically confirmed newly diagnosed solitary atypical meningioma (WHO grade II) based on the 2007 WHO criteria
2. Age 16 years or over
3. All anatomical locations allowed except optic nerve sheath tumour
4. Complete resection (Simpson grade I, II or III) as assessed by the surgeon
5. Able to commence radiotherapy between 8 and 12 weeks after surgery
6. WHO performance status 0-2

Participant type(s)

Patient

Age group

Adult

Sex

Both

Target number of participants

190

Total final enrolment

157

Key exclusion criteria

Current exclusion criteria as of 05/04/2019:

1. Neurofibromatosis type II (NF-2)
2. Optic nerve sheath tumours
3. Multiple meningiomas
4. Radiation-induced meningioma
5. Clinical evidence of second malignancy, except for cervix carcinoma in situ or basal cell carcinoma, and history of invasive malignancy unless treated with curative intent and the patient has been disease free for the last five years
6. Previous intracranial tumour in the last 10 years treated with radiotherapy or chemotherapy
7. Pregnant or lactating women.

Previous exclusion criteria as of 03/05/2017:

1. Neurofibromatosis type II (NF-2)
2. Optic nerve sheath tumours
3. Multiple meningiomas
4. Radiation-induced meningioma
5. Clinical evidence of second malignancy, except for cervix carcinoma in situ or basal cell carcinoma, and history of invasive malignancy unless treated with curative intent and the patient has not been disease free for the last five years
6. Previous intracranial tumour
7. Pregnant or lactating women

Previous exclusion criteria:

1. Neurofibromatosis type II (NF-2)
2. Multiple meningiomas
3. Previous radiotherapy to the brain or meninges interfering with the protocol treatment plan
4. Clinical evidence of second malignancies, except a history of cervix carcinoma in situ and/or basal cell carcinoma
5. Pregnant or lactating women

Date of first enrolment

28/04/2016

Date of final enrolment

26/05/2021

Locations

Countries of recruitment

Australia

Austria

Belgium

England

France

Germany

Ireland

Italy

New Zealand

Northern Ireland

Scotland

Spain

Switzerland

United Kingdom

Wales

Study participating centre

The Walton Centre

Liverpool

United Kingdom

L9 7LJ

Study participating centre

Queen's Hospital

Romford

United Kingdom

RM7 0AG

Study participating centre

CHU UCL Namur – Site Sainte-Elisabeth

Namur

Belgium
5000

Study participating centre
Nottingham City Hospital
Nottingham
United Kingdom
NG5 1PB

Study participating centre
Addenbrooke's Hospital
Cambridge
United Kingdom
CB2 0QQ

Study participating centre
Churchill Hospital
Oxford
United Kingdom
OX3 7LE

Study participating centre
Salford Royal Hospital
Manchester
United Kingdom
M6 8HD

Study participating centre
Hopitaux Universitaires Bordet-Erasme - Institut Jules Bordet
Brussels
Belgium
1000

Study participating centre
University College London Hospital
London
United Kingdom
NW1 2BU

Study participating centre
Western General Hospital
Edinburgh
United Kingdom
EH4 2XU

Study participating centre
Bristol Haematology and Oncology Centre
Bristol
United Kingdom
BS2 8ED

Study participating centre
Universitair Ziekenhuis Antwerpen
Antwerp
Belgium
2650

Study participating centre
Medical University Vienna - General Hospital AKH
Vienna
Austria
1090

Study participating centre
Charing Cross Hospital (Imperial College)
London
United Kingdom
W6 8RF

Study participating centre
Onze Lieve Vrouw Ziekenhuis
Aalst
Belgium
-

Study participating centre

University Hospital Southampton NHS Foundation Trust
Southampton General Hospital
Tremona Road
Southampton
United Kingdom
SO16 6YD

Study participating centre
King's College Hospital NHS Foundation Trust
Denmark Hill
Brixton
London
United Kingdom
SE5 9RS

Study participating centre
Complejo Hospitalario de Navarra
Pamplona
Spain
-

Study participating centre
Plymouth Hospitals NHS Trust
Derriford Road
Crownhill
Plymouth
United Kingdom
PL6 8DH

Study participating centre
Institut Catala d'Oncologia - ICO Badalona - Hospital Germans Trias i Pujol
Barcelona
Spain
-

Study participating centre
Royal Brisbane and Women's Hospital
Brisbane
Australia
-

Study participating centre

Institut Catala d'Oncologia - ICO Girona - Hospital Doctor Josep Trueta

Girona

Spain

-

Study participating centre

Liverpool Hospital

Sydney

Australia

-

Study participating centre

Newcastle upon Tyne Hospitals NHS Foundation Trust

Freeman Hospital

Freeman Road

High Heaton

Newcastle upon Tyne

United Kingdom

NE7 7DN

Study participating centre

Assistance Publique - Hopitaux de Paris - La Pitie Salpetriere

Paris

France

-

Study participating centre

UniversitaetsSpital Zurich

Zurich

Switzerland

-

Study participating centre

Sheffield Teaching Hospitals NHS Foundation Trust

Royal Hallamshire Hospital

Glossop Rd

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United Kingdom
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Study participating centre
CHRU Lille
Lille
France
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NHS Greater Glasgow & Clyde
1055 Great Western Rd
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Universitaetsspital Basel
Basel
Switzerland
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Study participating centre
Royal North Shore Hospital
Sydney
Australia
-

Study participating centre
SLRON Beaumont
Dublin
Ireland
-

Study participating centre

Peter MacCallum Cancer Centre

Melbourne

Australia

-

Study participating centre

CHU Lyon - Hopital neurologique Pierre Wertheimer

Lyon

France

-

Study participating centre

Waikato Hospital

Hamilton

New Zealand

-

Study participating centre

Christchurch Hospital

Christchurch

New Zealand

-

Study participating centre

Ospedale Bellaria

Bologna

Italy

-

Study participating centre

Paracelsus Kliniken

Germany

-

Study participating centre

University Hospitals Birmingham NHS Foundation Trust

Queen Elizabeth Hospital Birmingham

Mindelsohn Way

Edgbaston

Birmingham
United Kingdom
B15 2GW

Study participating centre
Belfast Health and Social Care Trust
Belfast City Hospital
Lisburn Road
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United Kingdom
BT9 7AB

Study participating centre
Hôpitaux universitaires de Genève - HUG - site de Cluse-Roseiraie
Geneva
Switzerland
-

Study participating centre
Calvary Mater Newcastle
Newcastle
Australia
-

Study participating centre
Princess Alexandra Hospital
Sydney
Australia
-

Study participating centre
ROPART (Radiation Oncology Princess Alexandra Hospital Raymond Terrace)
Brisbane
Australia
-

Study participating centre
GasthuisZusters Antwerpen - Sint-Augustinus
Antwerp

Belgium

-

Study participating centre

University Hospitals of North Midlands NHS Trust

Royal Stoke University Hospital

Newcastle Road

Stoke-on-Trent

United Kingdom

ST4 6QG

Study participating centre

Cliniques Universitaires Saint-Luc

Brussels

Belgium

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Study participating centre

Velindre NHS Trust

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Parc

Nantgarw

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CF15 7QZ

Study participating centre

Westmead Hospital

Sydney

Australia

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Study participating centre

Centre Hospitalier Universitaire Vaudois - Lausanne

Lausanne

Switzerland

-

Study participating centre

Fondazione IRCCS Istituto Neurologico Carlo Besta

Milan

Italy

-

Study participating centre

Institut Catala d'Oncologia - Hospital Duran i Reynals

Barcelona

Spain

-

Study participating centre

Chris O'Brien Lifehouse

Sydney

Australia

-

Study participating centre

Sir Charles Gairdner Hospital

Nedlands

Australia

-

Study participating centre

Universitaetsklinikum Bonn

Bonn

Germany

-

Study participating centre

Hospital Universitario 12 De Octubre

Madrid

Spain

-

Study participating centre

Royal Marsden NHS Foundation Trust

Fulham Road

London

United Kingdom
SW3 6JJ

Study participating centre
Innsbruck Universitaetsklinik
Innsbruck
Austria
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Sponsor information

Organisation

The Walton Centre NHS Foundation Trust (UK)

Sponsor details

Lower Lane
Fazakerley
Liverpool
England
United Kingdom
L9 7LJ

Sponsor type

Hospital/treatment centre

Website

<https://www.thewaltoncentre.nhs.uk>

ROR

<https://ror.org/05cvxat96>

Funder(s)

Funder type

Government

Funder Name

Health Technology Assessment Programme

Alternative Name(s)

NIHR Health Technology Assessment Programme, HTA

Funding Body Type
Government organisation

Funding Body Subtype
National government

Location
United Kingdom

Results and Publications

Publication and dissemination plan

The communication and dissemination strategy will actively involve participating centres, their staff, service users and the professional bodies involved (Society of British Neurological Surgeons, British Neuro-Oncology Society) and relevant charitable organisations (brainstrust, The Brain Tumour Charity, MeningiomaUK), in discussing the proposed trial prior to its implementation and reviewing trial progress and results. Communication and dissemination of results, including findings from the embedded qualitative study relevant to clinical trial methodology, will be assisted by members of the study team, several of whom have leading roles in research and quality of practice activities across the NHS. Findings of the trial will be presented at National and International meetings of relevant professional bodies and research groups. The results of the trial will be published in peer-reviewed journals. Publication is anticipated in 2024/2025. Updates on trial progress will be presented at conferences throughout the recruitment period.

Intention to publish date
30/09/2026

Individual participant data (IPD) sharing plan
The data sharing plans for the current study are unknown and will be made available at a later date

IPD sharing plan summary
Data sharing statement to be made available at a later date

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Protocol article	protocol	14/11/2015		Yes	No
Other publications	qualiatative analysis	01/04/2020	12/02/2020	Yes	No
HRA research summary			28/06/2023	No	No