

Hyperbaric Oxygen Radiation Tissue Injury Study - IV (Radiation proctitis)

Submission date 08/04/2005	Recruitment status Stopped	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 18/05/2005	Overall study status Stopped	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
Last Edited 25/01/2019	Condition category Cancer	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

Contact name
Mr Richard Clarke

Contact details
5 Richland Medical Park
Columbia
United States of America
29203

Additional identifiers

ClinicalTrials.gov (NCT)
NCT00134628

Protocol serial number
N/A

Study information

Scientific Title
Hyperbaric Oxygen Radiation Tissue Injury Study - IV (Radiation proctitis)

Acronym

Study objectives

Radiation of prostate, urological and gynecological cancers frequently places the rectum within the radiation portal. Resulting tissue injury will manifest months to years later in a not insignificant percentage of patients. Symptoms include pain, bleeding, bowel dysfunction, stricture, oedema, erythema, tissue friability, ulceration, necrosis and fistulae. Therapeutic approaches include topical agents, transfusions, careful diet, pain control, laser coagulation and surgical resection.

Clinical experience and clinical evidence of a beneficial role of hyperbaric oxygen are generally encouraging but no prospective systematic analysis of outcomes has been reported. HORTIS IV represents the first randomised controlled trial to investigate hyperbaric medicine's therapeutic role at this anatomic site.

Aim:

To determine the effectiveness of hyperbaric oxygen (HBO) therapy as either a prophylaxis against, or treatment of, late radiation tissue injury (RTI).

Overview of the study can be found at: http://www.baromedicalresearch.org/pdf/HORTIS_Overview.pdf

All HORTIS trials that have been registered with ISRCTN can be found at: <http://www.controlled-trials.com/isrctn/search.html?srch=HORTIS&sort=3&dir=desc&max=10>

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Radiation Proctitis

Interventions

Patients enrolled in the trial have undergone (and failed to respond to) standard care for a period of not less than 90 days. These patients are included in the trial and assigned to either an active arm (hyperbaric oxygen therapy) or a placebo arm. Patients may require some kind of standard care while in the trial to overcome acute exigencies (e.g., blood transfusion, surgical cauterisation, etc.).

This trial has been closed to further patient recruitment. The protocol can be found at http://www.baromedicalresearch.org/pdf/HORTISIV_Protocol.pdf.

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

SOMA (subjective, objective, management, analytic) scale used to determine late effects to normal tissue (LENT) score. Time frame: pre-treatment, post-treatment (HBO and placebo) and at follow ups at 3 months, 6 months, and 1 year through 5 years.

Key secondary outcome(s)

Clinical assessment using one of the following criteria:

1. Healed
2. Modestly improved (less than 50% lesion resolution)
3. Not improved
4. Other (e.g., lesion recurrence, lesion size progression)
5. Significant improvement (greater than 50% lesion resolution)

Time frame: post-treatment (HBO and placebo) and at follow-ups at 3 and 6 months, and 1 year through 5 years

Completion date

12/02/2005

Eligibility

Key inclusion criteria

Patients whose cancer treatment included radiotherapy and who have developed late radiation tissue injury, manifesting as one or more of the following diagnostic criteria:

1. Endarteritis
2. Hypocellularity
3. Hypovascularity
4. Mucosal thickening
5. Diarrhoea
6. Vomiting
7. Cramping
8. Tenesmus
9. Obstruction
10. Constipation
11. Stricture
12. Perforation
13. Pain
14. Fistula
15. Haemorrhage
16. Obstipation
17. Wall changes

18. Tissue hypoxia

19. Ulceration

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

Patients, who are pregnant or have any of the following illnesses, conditions or requirement:

1. Pregnancy
2. Reactive airway disease
3. Radiographic evidence of pulmonary blebs or bullae
4. Untreated pneumothorax
5. Previously documented ejection fraction less than 35%
6. History of seizures - except childhood febrile seizures
7. Cardiovascular instability
8. Mechanical ventilator support
9. Unable to follow simple commands
10. Not orientated to person, place, time
11. Participating as a subject in any other medical or biomedical research project - if previously involved as a subject, sufficient time must have elapsed to permit 'wash out' of any investigational agent

Date of first enrolment

01/01/2001

Date of final enrolment

12/02/2005

Locations

Countries of recruitment

Australia

Mexico

South Africa

Türkiye

United States of America

Study participating centre
5 Richland Medical Park
Columbia
United States of America
29203

Sponsor information

Organisation
Baromedical Research Foundation (USA)

Funder(s)

Funder type
Charity

Funder Name
The Lotte and John Hecht Memorial Foundation (Canada)

Funder Name
The Gustavus and Louise Pfeiffer Research Foundation (USA)

Funder Name
Atlantic Hyperbaric Associates (USA)

Funder Name
Mercy Health Partners (USA)

Funder Name
Hyperbaric Physician Services (USA)

Funder Name
National Baromedical Services (USA)

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?
Study website	Study website	11/11/2025	11/11/2025	No	Yes