

A comparison between the Insulin Tolerance Test (ITT) and the combined growth Hormone Releasing Hormone and Arginine test to determine Growth Hormone (GH) status in cranially irradiated patients.

Submission date 30/09/2005	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
Registration date 30/09/2005	Overall study status Completed	<input type="checkbox"/> Protocol
Last Edited 27/08/2008	Condition category Nutritional, Metabolic, Endocrine	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

Contact name
Prof S M Shalet

Contact details
Endocrinology
Christie Hospital NHS Trust
Wilmslow Road
Withington
Manchester
United Kingdom
M20 4BX
+44 (0)161 446 3667
stephen.m.shalet@manchester.ac.uk

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

N0063072321

Study information

Scientific Title

Study objectives

We aim to study the pattern of growth hormone response to a combination of GHRH (growth hormone releasing hormone) plus Arginine in adults with radiation induced growth hormone deficiency, to find out whether this stimulation test can successfully replace the Insulin Tolerance Test (ITT) for the diagnosis of radiation-induced growth hormone.

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

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

Health condition(s) or problem(s) studied

Nutritional, Metabolic, Endocrine: Growth hormone deficiency

Interventions

Patients will be reviewed in Endocrine Clinic. Those who fulfil the inclusion criteria will be invited to participate. An information sheet will provide full details of the study and what is involved. It is established practice that patients sign an informed consent before undergoing GH tests. Patients will undergo the ITT and GHRH+ARG. Stimulation tests in random order, at least three days apart. After overnight fasting, the patient will be admitted to the endocrine unit at 08:30h.

A cannula will be inserted into a forearm vein and kept patent by normal saline. For the ITT, a bolus of 0.1u/kg regular insulin (actrapid) will be given intravenously and the blood glucose level measured (by glucometer) every 15 min. The patient will not be left unattended until the test is finished and the blood glucose level has returned to normal.

For the GHRH+Arginine test, a bolus of 1ug/kg GHRH24 will be infused over 30 min, from 0 to 30 min. Blood samples will be taken every 15 min from -15 to 120 min. They will be assayed for GH, IGF-I, IGFBP3 and Acid Labile sub-unit (ALS).

Intervention Type

Drug

Phase

Not Specified

Drug/device/biological/vaccine name(s)

combination of GHRH (growth hormone releasing hormone) plus Arginine

Primary outcome measure

Primary end point: growth hormone response to different provocative tests.

Secondary outcome measures

Not provided at time of registration

Overall study start date

26/05/2000

Completion date

31/12/2008

Eligibility**Key inclusion criteria**

Not provided at time of registration

Participant type(s)

Patient

Age group

Adult

Sex

Not Specified

Target number of participants

30-40 patients from the Trust will be entered to this study.

Key exclusion criteria

1. Patients with pituitary tumours or previous surgery in the hypothalamic-pituitary field (non radiation-induced damage)
2. Patients with active or uncured malignancy

3. Patients who are suffering from any condition or disease or taking any medication that might affect the function of the hypothalamic-pituitary axis or interfere with the interpretation of the tests

4. Failure to sign an informed consent

Date of first enrolment

26/05/2000

Date of final enrolment

31/12/2008

Locations

Countries of recruitment

England

United Kingdom

Study participating centre

Endocrinology

Manchester

United Kingdom

M20 4BX

Sponsor information

Organisation

Department of Health

Sponsor details

Richmond House

79 Whitehall

London

United Kingdom

SW1A 2NL

+44 (0)20 7307 2622

dhmail@doh.gsi.org.uk

Sponsor type

Government

Website

<http://www.dh.gov.uk/Home/fs/en>

Funder(s)

Funder type

Government

Funder Name

Christie Hospital NHS Trust, Christie Endocrinology Department Research Fund (UK), NHS R&D Support Funding

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	01/01/2003		Yes	No