Short term recombinant human Growth Hormone administration increases strength and power, but does it improve sporting performance in anabolic-androgenic steroid users?

Submission date	Recruitment status No longer recruiting	Prospectively registered		
19/10/2006		☐ Protocol		
Registration date	Overall study status Completed	Statistical analysis plan		
27/10/2006		[X] Results		
Last Edited	Condition category	Individual participant data		
29/06/2016	Other			

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

Dr Michael Graham

Contact details

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

280361999

Study information

Scientific Title

Short term recombinant human Growth Hormone administration increases strength and power, but does it improve sporting performance in anabolic-androgenic steroid users?

Acronym

rhGH on performance

Study objectives

Short-term recombinant human Growth Hormone (rhGH) administration increases strength, power and endurance performance in healthy, abstinent Anabolic-Androgenic Steroid (AAS) using weight lifters.

Ethics approval required

Old ethics approval format

Ethics approval(s)

University of Glamorgan ethics committee. Originally approved on the 22nd January 2002 (ref: SEC3), amended and final approval was granted on the 20th November 2002 (ref: SEC7).

Study design

Double blind experimental trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Not specified

Study type(s)

Quality of life

Participant information sheet

Health condition(s) or problem(s) studied

Anabolic-Androgenic Steroid (AAS) users

Interventions

All physiological tests were performed in the same order for both the experimental group and the controls. Subjects were familiarised with testing procedures. Subjects were examined daily over a period of six weeks between the hours of 09:00 and 11:00 and were anonymous to each other.

Subjects were administered rhGH, under supervision, by subcutaneous abdominal injection, in a controlled hygienic environment, for six consecutive days in a dosage of 0.058 International Units (IU)/kg/day (0.019 mg/kg/day). Subjects were examined prior to the commencement of rhGH administration (day one), one day after six days administration (day seven), and eight days after cessation (day 14). Dietary intake was strictly monitored, using a fourteen day dietary recall.

The control group were an exercise control group and did not take an active substance.

Intervention Type

Drug

Phase

Not Specified

Drug/device/biological/vaccine name(s)

Recombinant human Growth Hormone

Primary outcome measure

Increased strength, power and endurance performance indices.

Secondary outcome measures

- 1. Reduced body fat
- 2. Increased fat free mass
- 3. Increased heart rate

Overall study start date

01/08/2004

Completion date

01/10/2004

Eligibility

Key inclusion criteria

Healthy individual weight lifters, who were previous experienced users of AAS, in a 12 week abstinent phase

Participant type(s)

Patient

Age group

Not Specified

Sex

Not Specified

Target number of participants

48

Key exclusion criteria

Positive urinalysis for ergogenic aids

Date of first enrolment 01/08/2004

Date of final enrolment 01/10/2004

Locations

Countries of recruitment

United Kingdom

Wales

Study participating centre University of Glamorgan

1 Lantwit Road Treforrest Cardiff United Kingdom CF37 1DL

Sponsor information

Organisation

University of Glamorgan

Sponsor details

1 Lantwit Road Treforrest Cardiff Wales United Kingdom CF37 1DL

Sponsor type

University/education

Website

http://www.glam.ac.uk/

ROR

https://ror.org/02mzn7s88

Funder(s)

Funder type

University/education

Funder Name

University of Glamorgan (UK)

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	01/06/2007		Yes	No