

# Acute effect of exercise on attention in children

<b>Submission date</b> 20/06/2006	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 03/08/2006	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 27/10/2016	<b>Condition category</b> Nutritional, Metabolic, Endocrine	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
		<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

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### Contact details

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## Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

N/A

# Study information

## Scientific Title

Acute effect of exercise on attention in children

## Acronym

LEAPFROG ACUTE

## Study objectives

There is increasing evidence that children lead sedentary lives. An inactive lifestyle not only increases risk of obesity and metabolic disease, but may also have adverse effects on cognitive function. However, effects of physical activity on cognition in children are unclear and two recent systematic reviews or meta analyses have called for new randomised controlled trials (RCT).

The aims of the study are:

1. To test the hypothesis that an acute bout of aerobic exercise might have effects on attention in 6-8 year olds
2. To pilot for a future larger scale RCT

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

University of Glasgow Medical Faculty Ethics Committee (project number: FM03605)

## 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

Obesity

## Interventions

Intervention group: acute bout of aerobic exercise for 30-40 minutes

Control: sedentary behaviour for 30-40 minutes

## Intervention Type

Other

**Phase**

Not Specified

**Primary outcome measure**

Attention - measured using the Attentional Network Task (ANT)

**Secondary outcome measures**

Process evaluation (intensity of the acute bout of exercise, using accelerometry)

**Overall study start date**

01/06/2006

**Completion date**

01/08/2007

**Eligibility**

**Key inclusion criteria**

1. Healthy children aged 6-8 years attending mainstream primary schools

**Participant type(s)**

Patient

**Age group**

Child

**Lower age limit**

6 Years

**Upper age limit**

8 Years

**Sex**

Both

**Target number of participants**

40 to 60 (20 to 30 per group)

**Key exclusion criteria**

1. Diagnosis of any disorder of attention or memory

**Date of first enrolment**

01/06/2006

**Date of final enrolment**

01/08/2007

# Locations

## Countries of recruitment

Scotland

United Kingdom

## Study participating centre

**Division of Developmental Medicine**

Glasgow

United Kingdom

G3 8SJ

# Sponsor information

## Organisation

Yorkhill Hospital NHS Trust (UK)

## Sponsor details

c/o Dr Alison Wood

Research and Development Office

Harley Street

Royal Hospital for Sick Children

Yorkhills Hospitals

Dalnair Street

Glasgow

Scotland

United Kingdom

G3 8SJ

## Sponsor type

Hospital/treatment centre

# Funder(s)

## Funder type

Charity

## Funder Name

Yorkhill Children's Foundation Studentship

# 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