Cerebral blood flow measurements with fMRI.

No registrations found.

Ethical review	Positive opinion
Status	Recruiting
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON23542

Source
NTR

Health condition

Bestuderen van de bloeddoorstroming van de hersenen in reactie op een hoog calorische stimulus.
To study cerebral blood flow with 1Tesla MRI before and after ingestion of a liquid meal.

Sponsors and support

Primary sponsor: Academisch Medisch Centrum
Source(s) of monetary or material Support: fonds = verrichter = sponsor

Intervention

Outcome measures

Primary outcome

Percentage and/or absolute changes in local cerebral blood flow after a liquid meal.

Secondary outcome

1. Difference in cerebral blood flow between males and females;

2. Influence of ingestion of a liquid meal.

Study description

Background summary

The brain is the master regulator of food intake. It has been shown that there are anatomical differences between certain brain areas in obese compared with lean people. Also, the response to food related ques seems to be different between these groups. The latter can be studied by measuring cerebral blood flow with fMRI.

Study objective

The response in cerebral blood flow upon ingestion of a liquid meal differs between males and females.

Study design

One measurement (fMRI).

Intervention

Ingestion of a high-caloric liquid meal.

Contacts

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Eligibility criteria

Inclusion criteria

1. 15 lean male subjects/ 15 lean female subjects;

2. BMI 20- 25 kg/m²;

3. Age 18 – 60 years;

4. Stable weight 3 months prior to study inclusion;

5. Caucasian;

6. Written informed consent;

7. Right handed.

Exclusion criteria

1. Claustrophobia;

2. Metal objects in the body (e.g. pacemaker);

3. Left handed;

4. Smoking and/or Alcohol/Drug abuse;

5. Intensive exercise (more than 3 times per week);

6. Eating disorder (other DSM IV diagnosis);

7. Medication use that interferes with dopamine metabolism or nutrient absorption;

8. DM.

Study design

Design

Study type:	Interventional
Intervention model:	Parallel
Allocation:	Non controlled trial
Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL

Recruitment status:	Recruiting
Start date (anticipated):	01-05-2010
Enrollment:	30
Type:	Anticipated

Ethics review

Positive opinion

Date:	04-05-2010
Application type:	First submission

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
NTR-new	NL2194
NTR-old	NTR2318
Other	METC AMC : 09/248
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Study results

Summary results
N/A